

SOUTHERN

MISSOURI • SOUTHERN • STATE • COLLEGE



GENERAL CATALOG 1985-87

Missouri Southern State College



Missouri Southern State College welcomes students to an atmosphere of challenge, to a curriculum based on tradition and innovation, and to a community of scholar-teachers who respond to students as individuals.

Missouri Southern grants baccalaureate and associate degrees within a context of general education which encourages the mastery of communication skills and an understanding of the history, culture, and economics of our society. The College also is dedicated to instilling the concept of lifelong learning that will enable students to adapt to constantly evolving vocations.

The sounds of music echo from the Finney Recital Hall as students perform their solo recitals of music for the
beat of the Lion Pride Band.

GENERAL INFORMATION



The sounds of music echo from the Phinney Recital Hall to Hughes Stadium, as students perfect their solo artistry or march to the beat of the Lion Pride Band.

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GENERAL INFORMATION



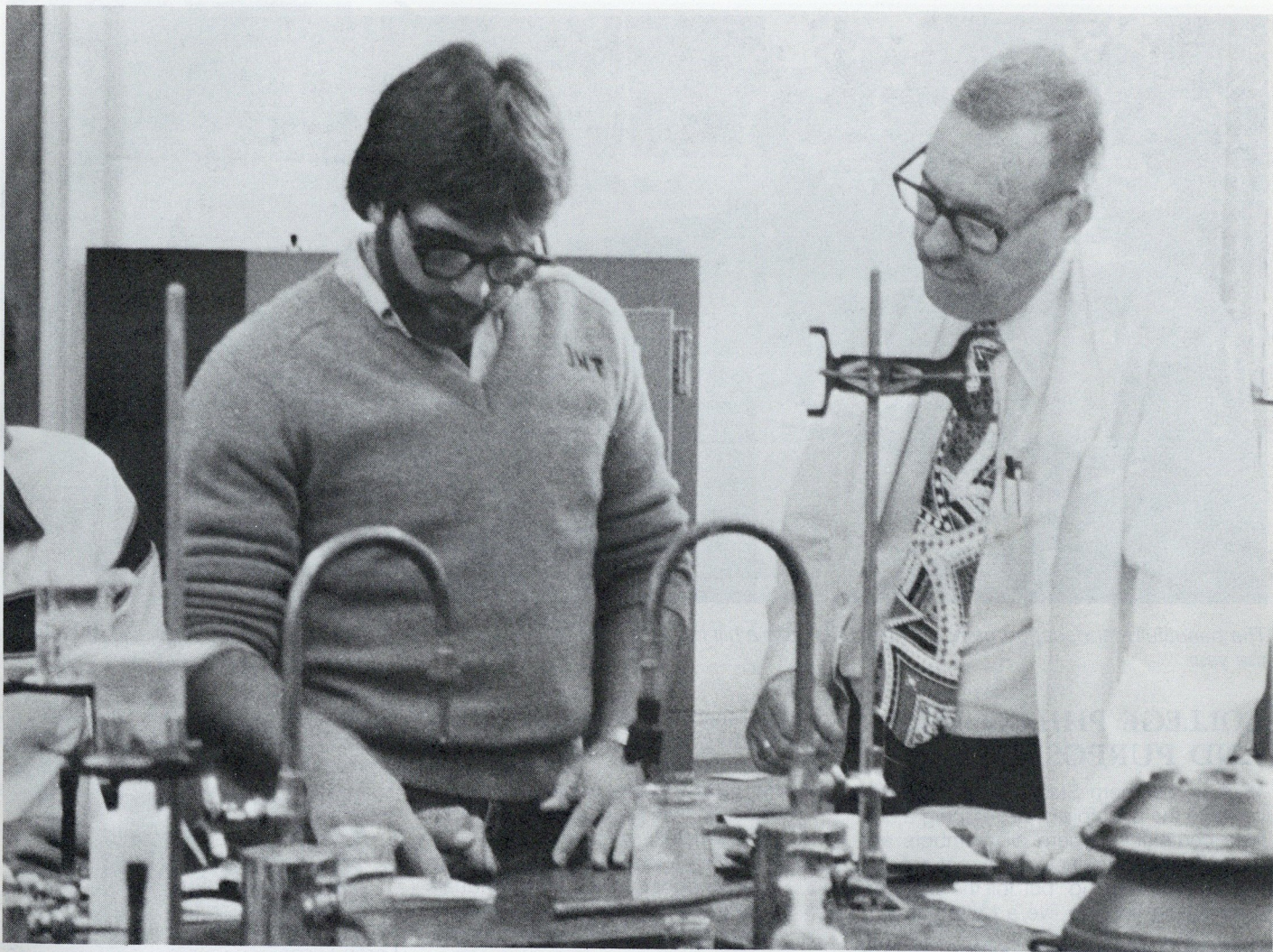
Open computer labs with IBM-PCs help students from every discipline to learn the computer skills that are most applicable to their major field. That computer knowledge is a requirement for every graduate.

LOCALE

The campus of Missouri Southern State College is located on 320 acres of the historic Mission Hills Farm at the north-east edge of Joplin. The former Mansion House and the old barn are still an integral part of the campus.

The College is in the center of a service

area of approximately 350,000 people including parts of Arkansas, Kansas, and Oklahoma. This four-state area has highly diversified business and industry. In Joplin, cultural and recreational activities, major medical centers, and churches for all faiths abound. Within easy driving distance are large metropolitan centers and the great recreational area of the Ozarks.



Over 80 percent of the students enrolled in the science and pre-professional programs who apply to graduate or professional schools are accepted. That kind of success comes from a strong curriculum and faculty who give close individual attention.

HISTORY

The citizens of Joplin who in the late 1930s asked the public school district to offer college classes could not have envisioned the sprawling campus and multi-disciplined curriculum that today is Missouri Southern State College. From that initial request came Joplin Junior College, founded in 1937 as part of the Joplin school system. It served the citizens of Southwest Missouri from 1937 until the mid-1960s when the area citizens again recognized the need for expanded educational opportunities.

In 1964, the voters created the Junior College District of Jasper County with a Board of Trustees to govern the newly named Jasper County Junior College. The following year, the Missouri General Assembly established a two year senior college to be funded by the state when facilities of the junior college were available. The district would continue to fund the freshman and sophomore years.

The area again responded with enthusiastic and generous support to fund the building of a new campus to house the growing college. Administration and fac-

ulty, working with other college educators around the state, began developing the new curriculum. In August 1967, students gathered for the first time on the new campus of Missouri Southern College.

The dual funding arrangement with the state continued until 1977 when on July 1 the State of Missouri officially took on the responsibility of funding the entire college. Today Missouri Southern State College remains a proud member of the state's family of higher education institutions while continuing to serve the region that is an integral part of its past.

GENERAL INFORMATION



The beautifully landscaped campus which sits atop a hill has spacious grounds and broad vistas to be enjoyed at every season of the year.

COLLEGE PHILOSOPHY AND PURPOSES

Missouri Southern State College is dedicated to the principle of developing a college community where all members are given the opportunity to learn, not only for the sake of learning, but for the purpose of revealing ways to live a better life.

Missouri Southern State College offers a diversity of study designed to satisfy a wide range of student and community interests. The college endeavors to maintain quality instruction at all levels.

Missouri Southern State College shares a responsibility with other state colleges to serve any eligible student in the State of Missouri who may apply for admission. In addition, the college also recognizes its responsibility and obligation to serve the citizens of the immediate community.

The college fulfills its obligation to both state and community by:

- Providing an opportunity for students to pursue a wide range of cultural and intellectual interests.
- Providing an opportunity for students to prepare for a wide range of es-

tablished and emerging careers in industry, education, government, and business.

- Providing a variety of pre-professional and technical programs, at less than the bachelor's degree level.
- Providing a variety of continuing education opportunities for individuals at all levels of educational attainment.
- Providing an opportunity for students to prepare for a graduate education.

ACCREDITATION

North Central Association of Colleges and Secondary Schools
National Council for the Accreditation of Teacher Education
Missouri State Department of Education
American Dental Association
American Medical Association
National League for Nursing

MEMBERSHIPS

American Association of State Colleges and Universities
American Association of Colleges for Teacher Education
North Central Association Sub-Committee

on Institutions for Teacher Education
Council for the Advancement and Support of Education
American Assembly of Collegiate Schools of Business

BOARD OF REGENTS

Robert A. Higgins —	1989
Jerry E. Wells —	1984
Loren Olson —	1985
Anthony Kassab —	1986
William Putnam, Jr. —	1987
W. Terry James —	1988
Donald R. Patterson* —	Secretary

BOARD OF TRUSTEES

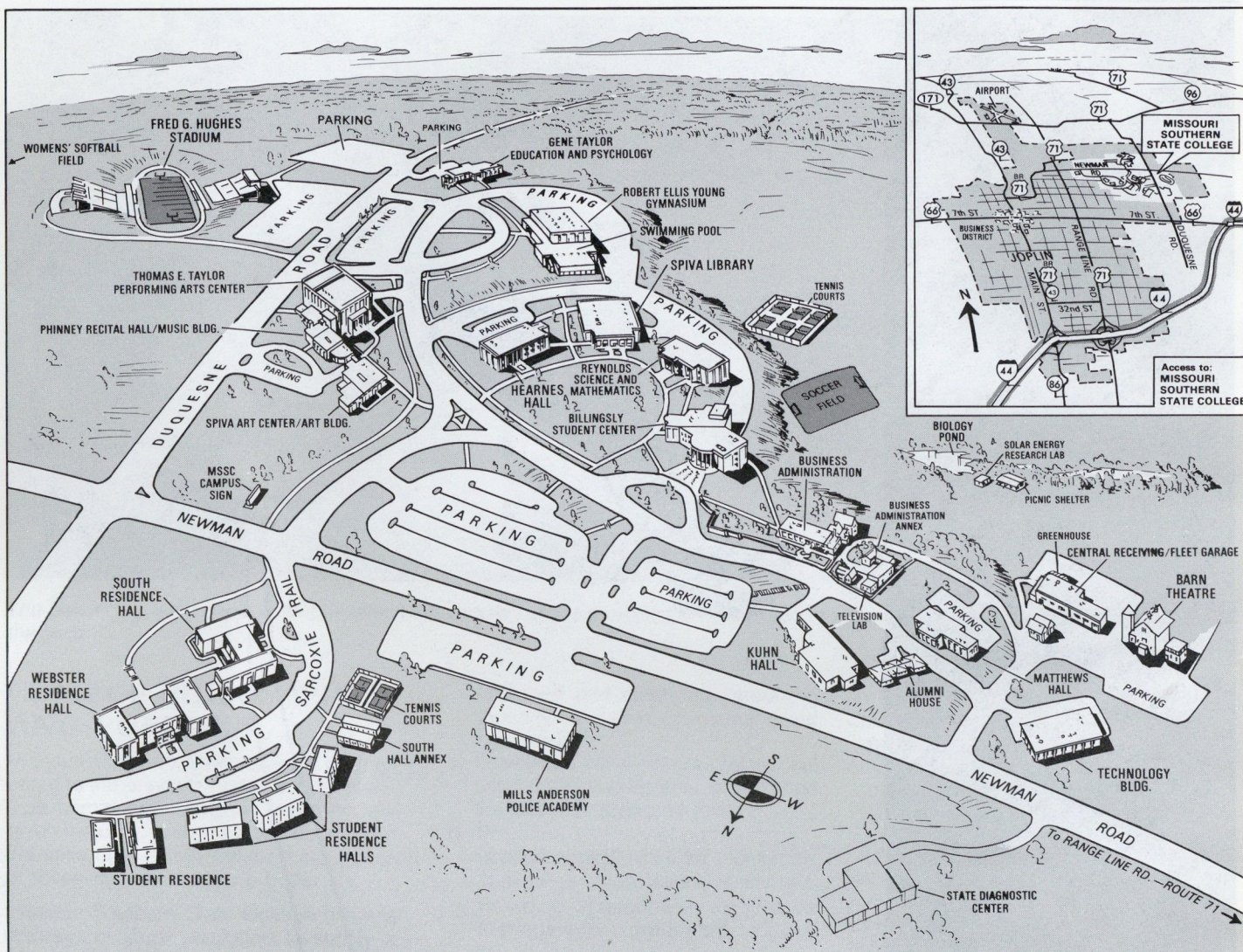
Fred G. Hughes
Arthur Kungle, Sr.
Carolyn D. McKee
Donald R. Patterson
Elvin Ummel
Jerry E. Wells

*Appointed by Board of Regents



The adventure of rappelling is just one of the challenges in Military Science, along with land navigation, rifle marksmanship and basic survival skills. The ROTC offers students the opportunity for scholarships while they pursue their chosen major.

CAMPUS DIRECTORY



CAMPUS DIRECTORY

Central Switchboard (417) 624-8100
 For admissions and financial aid information call MO toll free 1-800-492-4811
 Hours: 7:30 a.m.-9 p.m. Mon-Thur
 7:30 a.m.-5 p.m. Friday
 Summer Hours: 7 a.m.-5 p.m. Mon-Thur
 Closed Fridays.

Admissions	625-9378
Admissions (24 hours)	782-6772
Alumni—Development	625-9396
Athletics, Men	625-9317
Athletics, Women	625-9316
Bookstore	625-9380
Business Office	625-9381

Computer Science/Assistant Dean,	
School of Technology	625-9383
Continuing Education	625-9384
Education Department	625-9309
Financial Aids & Scholarships	625-9325
Grammar Hotline	624-0171
Library	625-9386
Mathematics & Sciences	625-9376
Missouri Southern Foundation	625-9396
MSTV	625-9375
Music Department	625-9318
Placement Office	625-9343
President's Office	624-8181
Public Information	625-9399
Registrar & Records	625-9389
Safety & Security	625-9391

Dean of Arts & Sciences	625-9385
Dean of Business	625-9319
Dean of Education & Psychology,	
Teacher Certification	625-9314
Dean of Technology	625-9328
Student Services	625-9392
Student Activities	625-9320
Swimming Pool &	
Racquetball	625-9390
Theatre	625-9393
Vice President,	
Academic Affairs	625-9394

Stations on Direct Inward Dial and other offices may be reached through the central switchboard.

ALUMNI HOUSE

Missouri Southern Foundation
Alumni Office

BARN THEATRE

CAB movies
Student directed shows
Special performances
Seminars

BUSINESS ADMINISTRATION BUILDING

Dean of Business
Historic Mission Hills Mansion house
Business Administration School

CAMPUS HOUSING

Webster Hall
South Hall
Residence Halls (five)
Women's Annex

FRED G. HUGHES STADIUM

7500 seat grandstand
Astro-turf field
All-weather track

FINE ARTS COMPLEX

Art Building
Art department
Spiva Art Center of Joplin
Metal foundry

Music Building
Music department
Edward S. Phinney Recital Hall

Thomas E. Taylor Auditorium
Theatre department
Scene and costume shops
Green room
2100 seat auditorium

GENE TAYLOR HALL

Dean of Education
Education department
Psychology department
Experimental psychology lab

HEARNES HALL

President
Dean of Arts and Sciences
Academic Affairs
Business Affairs
Admissions
Financial Aid
Registrar
English department
Newspaper/yearbook office

Communications department
Office services

KUHN HALL

Nursing department
Student Health Center

LEON C. BILLINGSLEY STUDENT CENTER

Conference rooms
Ballrooms
Cafeteria
Lion's Den snack bar
Student lounge
Bookstore
House of Lords dining room
Placement Office
Student Services Office
Campus Activities Board Office
Student Senate Office
Public Information Office

L.R. REYNOLDS HALL

Biology department
Physical Science department
Mathematics department

MILLS ANDERSON POLICE ACADEMY

Dean of Technology
Campus security office
Law enforcement department
R.O.T.C. department
Regional Crime Laboratory
Photography lab

NORVAL M. MATTHEWS HALL

Industrial Arts department
Computer Science department
Office Administration program
Computer center
IBM-PC labs

ROBERT ELLIS YOUNG GYMNASIUM

Basketball court
Physical education department
Olympic indoor swimming pool
Racquetball courts

SPIVA LIBRARY

150,000 volume library
Instructional Media Center
Learning Center

Library Annex

Social Sciences department
Foreign Language lab

TECHNOLOGY BUILDING

Automotive technology department

Machine technology department
Drafting and Design department
Dental Hygiene and Dental Assisting department

TELEVISION STUDIO

MSTV broadcast center
Instructional television

COLLEGE CALENDAR

1985-87

June 1985

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July 1985

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August 1985

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September 1985

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October 1985

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November 1985

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Summer Session 1985

June 3.....Day & Evening Registration
 June 4.....Classes Begin
 June 10 Last Day For Class Changes & Late Registration
 June 19.....Withdrawal After This Date No Refund of Fees
 July 3.....Last Day to Drop With a "W"
 July 4.....4th of July Holiday
 July 25.....Last Day of Classes
 July 26.....Final Examinations

Fall Semester 1985-86

August 19.....Faculty Study Conference
 August 20.....Day & Evening Registration
 August 21.....Day Registration
 August 22.....Classes Begin
 August 28.....Last Day For Class Changes & Late Registration
 September 2.....Dismissal For Labor Day
 September 25.....Withdrawal After This Date No Refund of Fees
 October 4.....Dismissal For Fall Vacation
 October 25.....Last Day to Drop With a "W"
 November 27,28,29.....Dismissal For Thanksgiving Holiday
 December 2.....Classes Resume
 December 11.....Last Day of Classes
 December 12.....Open (No Classes-No Finals)
 December 13,16,17,18.....Final Examinations
 December 18.....End of Semester

Spring Semester 1985-86

January 20.....Faculty Study Conference
 January 21.....Day & Evening Registration
 January 22.....Day Registration
 January 23.....Classes Begin
 January 29.....Last Day For Class Changes & Late Registration
 March 5.....Withdrawal After This Date No Refund of Fees
 March 17-21.....Spring Break
 April 2.....Last Day to Drop With a "W"
 May 14.....Last Day of Classes
 May 15.....Open (No Classes-No Finals)
 May 16,19,20,21.....Final Examinations
 May 21.....End of Second Semester
 May 24.....Commencement (10:30 a.m.)

Summer Session 1986

June 2.....Day & Evening Registration
 June 3.....Classes Begin
 June 9.....Last Day For Class Changes & Late Registration
 June 18.....Withdrawal After This Date No Refund of Fees
 July 2.....Last Day to Drop With a "W"
 July 3.....4th of July Holiday
 July 24.....Last Day of Classes
 July 25.....Final Examinations

December 1985

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January 1986

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June 1986

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July 1986

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August 1986

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September 1986

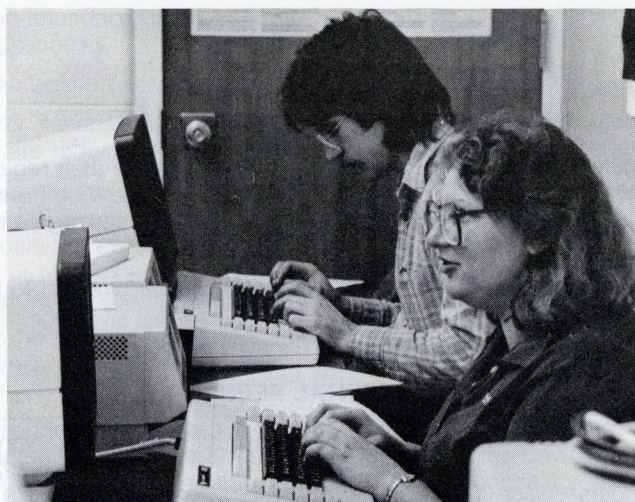
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November 1986

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Reporters set the type for their stories on digital typesetting equipment, one of the professional approaches to reproducing the weekly campus newspaper, The Chart.

December 1986

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January 1987

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February 1987

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March 1987

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April 1987

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May 1987

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Fall Semester 1986-87

August 18	Faculty Study Conference
August 19	Day & Evening Registration
August 20	.....	Day Registration
August 21	.....	Classes Begin
August 27	.....	Last Day For Class Changes & Late Registration
September 1	.....	Dismissal for Labor Day
September 24	.....	Withdrawal After This Date No Refund of Fees
October 10	.....	Dismissal for Fall Vacation
October 24	.....	Last Day to Drop with a "W"
November 26,27,28	.....	Dismissal For Thanksgiving Holiday
December 1	.....	Classes Resume
December 10	.....	Last Day of Classes
December 11	.....	Open (No Classes-No Finals)
December 12,15,16,17	.....	Final Examinations
December 17	.....	End of Semester

Spring Semester 1986-87

January 19	.....	Faculty Study Conference
January 20	.....	Day & Evening Registration
January 21	.....	Day Registration
January 22	.....	Classes Begin
January 28	.....	Last Day For Class Changes & Late Registration
March 4	.....	Withdrawal After This Date No Refund of Fees
March 16-20	.....	Spring Break
April 1	.....	Last Day to Drop With a "W"
May 13	.....	Last Day of Classes
May 14	.....	Open (No Classes-No Finals)
May 15,18,19,20	.....	Final Examinations
May 20	.....	End of Second Semester
May 23	.....	Commencement (10:30 a.m.)

FEE POLICIES

SCHEDULE OF FEES

Students must pay fees at the regular time of registration each semester or have their registration automatically cancelled. Contractual agreements for unique hardship problems must be arranged with the Vice President for Business Affairs or his delegated representative prior to registration. Failure to meet the terms of the agreement automatically cancels the registration.

Appeals concerning special problems pertaining to fees or refunds should be directed to the Vice President for Business Affairs in Hearnes Hall 200.

THE COLLEGE RESERVES THE RIGHT TO CHANGE FEES WITHOUT NOTICE.

INCIDENTAL FEES

	Resident of Missouri	Non-Resident
Fall & Spring Semester		
12 through 18 hours	\$432 per sem.	\$822 per sem.
Less than 12 or more than 18 hours*	\$36 per hr.	\$70 per hr.
Summer Session	\$36 per hr.	\$70 per hr.

*Surcharge is not applicable to those students whose School Dean requires that a course load above 18 hours be carried to meet curriculum requirements.

OTHER FEES

Application for admission	\$10
Applied Music	\$45 per credit hour
Art Materials (Ceramic, sculpture, jewelry, selected)	\$10
Change of class schedule	\$ 5
Commencement	\$20
Laboratory breakage and materials	cost
Late registration (full-time)	\$10
(part-time)	\$ 5
National Teachers Examination (required for BSE Major)	\$20
Radiologic Technology special fees	
First term	\$100
All other terms, each	\$40
Student Activity	\$15
Textbook rental and service charge	
(\$25 refundable full time; \$5 per course part time):	
Spring and fall semester	
(12 hours or more)	\$60
(under 12 hours)	\$12 per course
Summer Term	\$12 per course
Transcripts (First 2 without charge)	\$ 1
Residence Hall Cost (per semester):*	\$800
Refundable Security Deposit	\$75

*Charges may be paid in full or in three installments per semester. If the installment plan is chosen, a \$10.00 administrative charge will be assessed and the following schedule will be observed:

Fall Semester		Spring Semester	
August 1	\$270	January 1	\$270
September 15	\$270	February 15	\$270
October 15	\$270	March 15	\$270

Application for Admission A non-refundable fee is charged for processing applications for admission. The payment of this fee should be mailed with the application.

Applied Music For one 30-minute lesson per week in applied music, the usual fee is \$45 per credit hour.

Art Materials This fee provides for materials such as clay, glazes, waxes, solder, and other similar items necessary for the course projects. Other materials are required to be purchased by students such as paper, brushes, watercolors, or oils.

Change of Class Schedule Students are charged \$5 for each class change made after classes begin (refer to College Calendar). Students registered for 12 or more credit hours before and after the change in schedule will pay only the \$5 fee. Those changing from 11 or less hours to 12 or more hours must pay the full incidental and textbook fees and the \$5 change fee. Those who are registered for 12 or more hours and change to 11 or less hours during the change-of-registration week will receive a refund and will be charged by the credit hour.

Commencement Candidates for the associate or baccalaureate degrees are charged a commencement fee. This covers the cost of the diploma, cap and gown, and other commencement activities. The fee is subject to refund only when the candidate fails to qualify for graduation.

Evening Session Students enrolled in evening classes for regular college credit courses, applicable toward an associate or baccalaureate degree, are subject to the same fees, rules and regulations of the Day Session. Special fees are announced in the Evening Session Bulletin for classes not applicable to an associate or baccalaureate degree.

Laboratory Breakage and Materials There are no charges for the use of equipment in laboratories. The student will be expected to pay for excessive breakage or loss of equipment due to negligence on the part of the student. A fair actual value of the loss will be determined by school officials. Students will pay for materials used in individual projects. (Example: automotive parts.) Students enrolled in chemistry are required to purchase a laboratory breakage card which may be redeemed for this full amount at the end of the semester, providing there has been no breakage or loss caused by the student.

Late Registration A late registration fee is charged students who register after classwork begins. This fee is not refundable.

Miscellaneous Fees Occasionally a fee is charged for classroom materials, such as subscriptions to a periodical, line charges for bowling in physical education, film developing in photo-journalism, or purchase of paperback books in addition to the textbook rental.

Student Activity This charge is to support activities of the Student Senate and the Campus Activities Board. An activity card for part-time students or for spouses of students also is available at the Business Office for a fee. This card will allow admittance to most sports, theatre, and music events of the College, although these activities are funded from other sources.

Summer Session Rules and regulations which govern admission to the first and second semester during the regular school year shall also apply to the Summer Session.

Textbook Rental and Instructional Services Students enrolled during a semester in 12 or more credit hours pay a nonrefundable textbook rental fee (includes normal laboratory fees and cost of service on instructional equipment) and a textbook deposit. Students enrolled in less than 12 credit hours during any semester pay a deposit and a rental for each course in which they are enrolled. The deposit is refunded when the student has returned all books, materials, and equipment in satisfactory condition. (See page 14 for fees and refunds.) Books may be purchased at the end of the term for full retail price less an allowance for rental charges paid by the student.

Transcripts Each student is entitled to two official transcripts without charge. Payment must accompany the written request for each transcript.

EQUALITY OF OPPORTUNITY

Missouri Southern State College does not discriminate on the basis of sex, race, creed, color, national origin, or the handicapped in its educational programs or activities.

REFUND POLICY (Except for Residence Hall Charges)

Students enrolled in the fall and spring semesters who drop out of the College before the sixth week of the semester are entitled to a partial refund of refundable fees. Refunds for partial drops will be computed using the same percentages. The refund must be claimed during the term for which the refund applies. The refund will be computed as of the date the Registrar receives the withdrawal form completely and correctly executed.

The refund schedule is as follows:

Within the first and second weeks	80 percent refund
From the third through the fifth week	50 percent refund
After the fifth week	No refund
Refunds for the summer term are as follows:	
Within the first week	80 percent refund
From the second through the third weeks	50 percent refund
After the third week	No refund

Students are eligible for refunds *only* if they have followed official withdrawal procedures in the Registrar's office. Failure to attend classes does not constitute a withdrawal.

If the student has paid college costs and there is a refund, these monies will be refunded directly to the student after all charges have been applied to the account. However, if the college costs have been paid partially or fully by financial aid (scholarship, grant, or loan) or another source (i.e. Vocational Rehab), the refund will be returned to that financial aid or source up to 100% of the original aid amount. After restoring the financial aids or other source to its original amount, any excess of refund monies will be returned to the student.

Students who feel that individual circumstances warrant exceptions from this policy may appeal in writing to the Vice President for Business Affairs. This appeal must be made during the term for which the refund applies.

CORRESPONDENCE DIRECTORY

Missouri Southern State College • Joplin, MO 64801-1595 • (417) 624-8100

24 hr. answering service 782-MSSC

For admissions and financial aid information in Missouri toll free 1-800-492-4811

Admission of students	Director of Admissions
Alumni affairs	Director of Alumni Affairs
Athletic activities	Director of Athletics
Business affairs and purchases	Vice President for Business Affairs
Catalog and bulletins	Director of Admissions
Credit evaluation and transcripts	Registrar
Evening session	Vice President for Academic Affairs
Faculty appointments	Vice President for Academic Affairs
Financial aid	Office of Financial Aid
Gifts and annuities	President
Housing	Director of Housing
Loans	Office of Financial Aid
News/publications	Director of Public Information
Orientation	Director of Orientation
Placement services	Director of Placement Services
Student employment	Office of Financial Aid
Student organizations	Assistant Dean of Students
Summer session	Vice President for Academic Affairs
Testing	Director of Counseling
Veterans affairs	Veterans Counselor

DIRECTORY INFORMATION

Missouri Southern maintains directory information on each student which includes name, address, telephone number, date and place of birth, next of kin or spouse (emergency only), major field of study, dates of attendance, degrees and awards received and the most recent previous educational institution attended. In accordance with federal law, this information may be released unless the student informs the College that such information may not be released without the student's prior consent.

Department of
Student ServicesSTUDENT
SERVICES

The Department of Student Services is a central agency for the University of Missouri. It provides a wide range of services to students, including financial aid, placement, health services, and athletic participation. The department is organized into several offices, each with its own specific responsibilities.

The Financial Aid Office is responsible for the administration of all financial aid programs. It provides information and assistance to students and parents regarding the application process, eligibility requirements, and the distribution of funds.

The Placement Office is responsible for the placement of students in various programs and activities. It provides information and assistance to students regarding the application process, eligibility requirements, and the distribution of funds.

The Health Services Office is responsible for the provision of health care services to students. It provides information and assistance to students regarding the application process, eligibility requirements, and the distribution of funds.

How to Apply for Financial Aid

(1) All applicants should complete the American College Testing Program (ACT) or Scholastic Aptitude Test (SAT) and submit the results to the Financial Aid Office. (2) Applicants should complete the Free Application for Federal Student Aid (FAFSA) and submit it to the Financial Aid Office. (3) Applicants should complete the Missouri Southern Financial Aid Application and submit it to the Financial Aid Office. (4) Applicants should complete the Missouri Southern Financial Aid Application and submit it to the Financial Aid Office. (5) Applicants should complete the Missouri Southern Financial Aid Application and submit it to the Financial Aid Office.

FINANCIAL AID

Missouri Southern participates in a variety of financial aid programs to assist qualified students who wish to attend college. These include federal, state, and institutional aid. The Financial Aid Office is responsible for the administration of all financial aid programs. It provides information and assistance to students and parents regarding the application process, eligibility requirements, and the distribution of funds.

Department of Student Services

Glenn D. Dolence, Dean

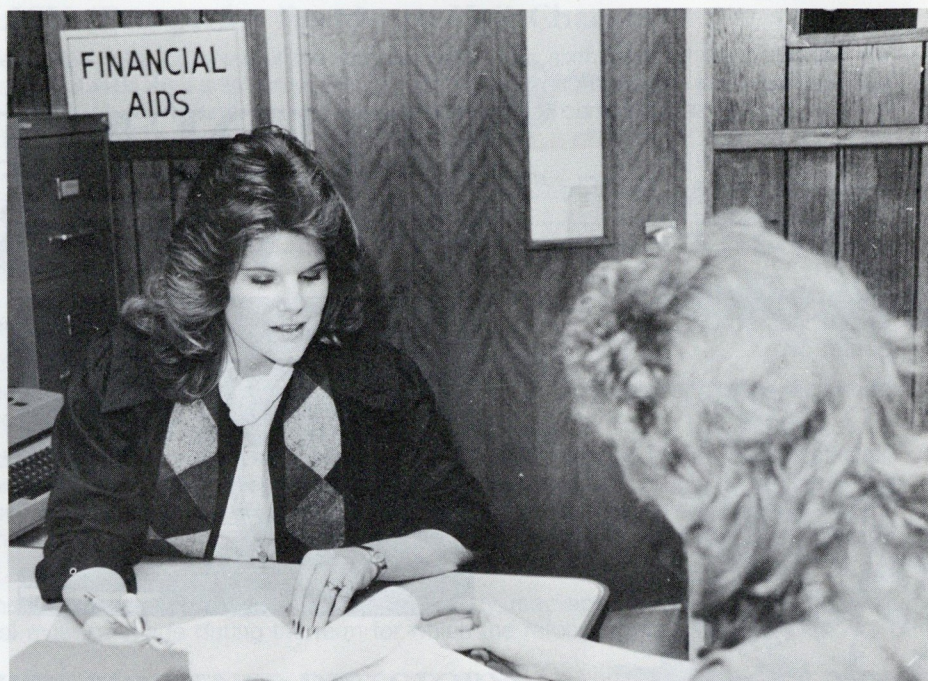
STAFF: Beard, Byers, Carnahan, Finder, Frazier, Freeman, Gilbert, Hartley, Humphrey, Karst, Lay, Miner, Mouser, Rice, Rogers, Vermillion, Wright

PURPOSE AND OBJECTIVES

The staff of the Department of Student Services, realizing that all education does not take place in the classroom, provides a wide variety of support services for students at Missouri Southern. The department includes the Admissions Office, the Financial Aid Office, the Counseling and Testing Center, the Student Activities Office, Placement Office, Housing Office, Student Health Services, and the Intercollegiate Athletic program. (For admissions requirements and procedures, see page 31 under Academic Regulations.)

With the goal of helping students to fully develop and achieve their educational goals, professional staff members are trained to support students in the following ways:

- (1) providing a campus climate in student residence and campus affairs which is conducive to academic achievement,
- (2) providing services which will assist in the self-development of each student and promoting the understanding of their own purposes for being in college,
- (3) providing through student government, student organizations, and other activities an opportunity to practice democratic living with both rights and responsibilities and to learn to work effectively and cooperatively with others,
- (4) providing an opportunity for those who are capable of benefiting from higher education by providing financial assistance when necessary in the form of scholarships, grants, loans, and employment,
- (5) helping each student develop a sense of individual responsibility and self-discipline,
- (6) interpreting college objectives, policies, and rules to students and communicating student attitudes, opinions, and activities to the faculty, administration, and general public,
- (7) providing student health services that meet the emergency and temporary medical needs of all students,



With the costs of education rising, financial aid is increasingly important to students. Counselors help families put together the best financial aid program for which a student is eligible.

- (8) providing an opportunity for students to gain information about the world of work and job opportunities, and
- (9) providing assistance and direction in matching student qualifications with job requirements.

FINANCIAL AID

Missouri Southern participates in a variety of financial aid programs to assist qualified students who would otherwise not be able to attend college. These funds—from private, institutional, state, and federal sources—are coordinated to meet the individual student's needs. There are programs based on various criteria such as financial need, performing ability, and academic excellence. Each program has requirements for maintaining the award and students must meet satisfactory academic progress guidelines for continued aid. No financial assistance is available to foreign students through the college. Foreign students are required to present a financial statement certifying that they have sufficient funds to pay all educational expenses.

Information in this catalog regarding Financial Aid is subject to change without notice. Missouri Southern reserves the right to adjust a student's financial aid package to reflect a true change in the student's financial situation. Financial aid awards are subject to changes in institutional policy and State and Federal regulations.

How to Apply for Financial Aid

- (1) All applicants should complete the American College Testing Program Family Financial Statement and mail it to ACT Operations Center, Iowa City, Iowa, designating Missouri Southern (Code 2304) to receive a copy of the report. This statement will generate a Pell Grant, Missouri Grant, and a comprehensive financial aid report.
- (2) Applicants should bring or mail all three copies of the Pell Grant Student Aid Report to the Financial Aid Office as soon as they receive the document.
- (3) Applicants should bring or mail a signed copy of their own or their parents' 1040 Income Tax Form to the Financial Aid Office. (This document must be on file



The infamous "mug shot" for campus ID cards is prepared in the Student Services office, whose professional staff handles many areas such as financial aids, housing, admissions, and student activities.

before any funds will be disbursed to the student.)

(4) Applicants for work, loans, or other grants should complete the Missouri Southern application, which is included in the Family Financial Statement, and return it to the Financial Aid Office. As soon as the necessary documents are on file, an award will be made.

(5) Applicants for scholarships should complete the application enclosed in the ACT packet and return it to the Financial Aid Office prior to April 1.

(6) Transfer students must obtain and submit transcripts of financial aid from each college previously attended.

(7) Applicants for special programs should contact the Financial Aid Office for instructions.

Policies and Regulations

Academic Standards

The student's academic progress will be determined in May of each year. However, if minimum standards of hours or grade point average are not met in the fall semester, the student automatically will be placed on financial probation for spring semester. If satisfactory progress is made during fall, but not during the spring semester, the student will be allowed one

semester on probation to make up all deficiencies.

After the probationary semester, grades will be checked and the number of courses will be verified to see if a minimum standard has been completed. If satisfactory progress is not maintained, the student will be placed on financial suspension until the required GPA is reached or course work is completed.

All financial aid recipients must meet the appropriate GPA as published in the college catalog, (page 42) Standards of Progress toward Graduation.) If the GPA falls below the minimum standard of progress, the student will be placed on probation.

Financial Aid Programs

Scholarships	Who Is Eligible	How Much	How to Apply
Honors Program	Students who score 27 on the ACT Placement Test	Award depends on test score. Full tuition and fees for score of 27; full tuition, fees, room and board for 32 or higher	Send test scores to Director of Honors Program and request application
President's Scholarships*	First and second ranking students in each accredited high school in the college's service area	Current award is \$610 per academic year	Upon recommendation of High School Counselor, scholarship is validated when recipient enrolls as a freshman
Regents' Scholarships*	Awarded directly to high school graduates who score 23 composite score or higher on the ACT	Current award is \$550 per academic year	Have ACT Placement Test scores sent to Counseling Office.
Dean's Scholarships*	High School graduates who rank in the upper 10% of their graduating class and have a composite ACT of 19 or above. The Dean's Scholarship cannot be used in conjunction with the President's, Regents' or Honors Program Scholarships.	Current value is \$410 per academic year.	Contact your high school counselor.
Junior College Transfer Scholarships*	Junior College graduates with a 3.0 GPA and students who have completed 55 hours or more with a 3.0 GPA at a Junior College	Current award is \$550 per academic year	Complete a Junior College Transfer Application
Patron's Scholarships	Criteria established by individual donors	Awards range from \$50 to \$800 as determined by individual donors	Applications available in Financial Aid Office. Application deadline <u>April 1</u>
Performing Aids Awards	Students who have demonstrated success or high potential in forensics, journalism, music, mathematics, theatre, baseball, football, golf, softball, volleyball, basketball, or soccer	Awards range from \$50 to \$3016	Apply directly to the director or sponsor of particular activity

*Students receiving President's, Regents', Dean's, and Junior College Transfer scholarships must complete at least 12 hours with a 2.5 GPA the first semester and a 3.0 GPA the following semesters.

Grants

ROTC Scholarships

Who Is Eligible

Outstanding students enrolled in Military Science

How Much

One-year, two-year, and three-year scholarships for tuition, lab fees, on-campus educational fees, and incidentals, plus up to \$1,000 tax-free subsistence allowance each school year.

How to Apply

Applications available from the Military Science Department

Pell Grant

Federal Aid program based on financial need. All students should apply

Grants range from \$200 to \$2100 depending on where the student lives and educational costs

Complete American College Testing Programs Family Financial Statement or regular Pell Grant application

Missouri Student Grant

State funded program for Missouri residents; based on financial need

Maximum grant not to exceed one-half the cost of tuition and fees

ACT Family Financial Statement. Application deadline April 30

Supplemental Educational Opportunity Grants (SEOG)

Students with exceptional financial need

Grants range from \$200 to \$1500 per academic year

ACT Family Financial Statement and Missouri Southern Financial Aid Application; application deadline April 30

Nursing Grant

Students who have been accepted in the Nursing Program; based on financial need

Grants range from \$200 to \$1500 per academic year

ACT Family Financial Statement and Missouri Southern Financial Aid Application; application deadline April 30

Employment Programs

Who is Eligible

How Much

How to Apply

Work Study Program

Federally funded program providing on-campus employment for students with financial need

Minimum wage; weekly hours based on need

ACT Family Financial Statement and Missouri Southern Financial Aid Application; application deadline April 30

Student Help Program

On-campus employment for students who are qualified to fill job openings

Hourly wage; no limit on weekly hours

Apply to Financial Aid Office or to individual departments on campus

STUDENT SERVICES

Loans	Who Is Eligible	How Much	How to Apply
National Direct Student Loans (NDSL)	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations	Interest free loans repayable at 5% interest, \$30 per month, beginning six months after student leaves school; deferments for military service, Peace Corps, or Vista	Complete ACT Family Financial Statement, Missouri Southern Financial Aid Application, Pell Grant Application; send copies of student's or parents' 1040 Income Tax forms to Financial Aid Office
Guaranteed Student Loans	Available to families with adjusted gross income below \$30,000 or families with adjusted gross income above \$30,000 who show financial need	Funds to cover balance of educational costs after other awards have been made; up to \$2500 per year to a maximum of \$12,500 for undergraduate study	Applications and special instructions available in Financial Aid Office
Nursing Loans	Students accepted in the Nursing Program who demonstrate financial need	Maximum \$2500 per year; interest at 6% begins six months after student leaves school	Applications available in Financial Aid Office; application deadline <u>April 30</u>
Short-term Tuition Loans	Short-term assistance for full-time students for payment of tuition and fees	Up to 50% of tuition and fees; all loans due and payable by the fifth week of the semester, (fourth week of summer term)	Applications available in the Financial Aid Office

Other Assistance	Who Is Eligible	How Much	How to Apply
Academic Management Service	All students are eligible for this monthly budget plan which allows payment of fees over a 10-month period and provides insurance coverage for the person making the payments.	Ranges from \$25 to full cost of tuition, fees, room and board; or the difference between total costs and other financial aid awarded	Applications available in the Financial Aid Office
Agricultural Loans	Missouri residents whose parents derive a portion of their income from farming or fishery	Loans at 8% interest, payable at \$50 per month beginning nine months after graduation	Contact: Missouri Department of Agriculture P.O. Box 630 Jefferson City, MO 65101
Veterans' Administration Benefits	Veterans who entered the military before Jan. 1, 1977, and served more than six months active duty, have been out of the service less than 10 years, and have other than dishonorable discharge. Also, veterans with service-connected disability of 10% or more and wives, husbands, and children of veterans who have total and permanent disability and widows, widowers, and children of veterans who died of service-related causes	\$342 per month for single veterans who are full-time students; increases for dependents	Contact: Veterans' Administration Officer, Veterans' representative on campus, or Veterans' Administration regional Office
Social Security Benefits	Students between 18 and 22 who receive funds because of death, disability, or retirement of a parent or grandparent	Ranges from \$25 to \$350 per month depending on the worker's length of employment	Contact: Social Security Administration 123 Main Street Joplin, MO 64801
Bureau of Indian Affairs	Students who can prove they are at least one-fourth Indian blood	Awards range from partial tuition to full tuition and fees	Contact: Bureau of Indian Affairs Higher Education Office Federal Building, Room 300 Muskogee, OK 74001
Vocational Rehabilitation	Students with any disability	Awards range from \$25 to full tuition, fees, room and board	Contact: Vocational Rehabilitation Office 1609 E. 20th Joplin, MO 64801

The maximum time in which a student is eligible to receive financial assistance is as follows:

TABLE OF MAXIMUM SEMESTERS OF AID ELIGIBILITY

Degree	Full-Time	¾ Time	Half Time
Bachelor	12	18	24
Associate	6	9	12
Certificate	3	5	6

Note: It is automatically assumed that students who do not indicate a degree program are pursuing a bachelor's degree.

All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and for which they receive payment.

Category	Hours per Semester	Hours to be Completed
Full-time	12 or more	21 hours per year
¾ time	9 to 11	15 hours per year
Half-time	6 to 8	9 hours per year

Note: In calculating minimum hours completed per year, the following will not be counted: incomplete, repetitions, non-credit remedial courses, audited courses, and withdrawals. However, if withdrawal from a class results in a change in categories, the originally required payment hours must be completed. If the minimum required hours are not completed, the student will be placed on probation. Students who fail to complete the minimum required hours during the academic year (fall and spring) or whose grades are below the minimum may make up the deficiencies in summer school.

All aid will terminate immediately under the following situations:

- (1) withdrawal from all classes,
- (2) failure to meet special requirements of academic progress imposed by the Financial Aid committee, or
- (3) default on any federally funded student loan or on any Missouri Southern tuition loan.

Appeal Procedures

Students may appeal the suspension of aid to the Director of Financial Aid. After reviewing the file, the Director may reinstate the aid if a course failure was due to medical circumstances, change of degree, change of major, or circumstances beyond control.



Annually over 10,000 children and adults enjoy the live theatre productions which offer students from all majors creative outlets in performance and production work.

If the Director denies the appeal, an appeal may be made to the Financial Aid Committee. The student must submit, in writing, an explanation of any special circumstances in addition to the ones listed that the committee should consider in determining whether any aid should be reinstated. After reviewing student records and written comments, the committee will give written notification of its decision. The notification will state whether or not the aid should be continued and the requirements for reinstatement. The decision of the Financial Aid Committee is final.

It is assumed that transfer students are making satisfactory academic progress when they enroll at Missouri Southern. They will be evaluated at the end of their first full academic year.

Students may continue to receive assistance under the following mitigating circumstances: meeting standards or on probation under old policy, medical problems, change of degree objective, change of major, or other extenuating circumstances.

The Director will determine the validity of these circumstances provided there is appropriate documentation. Under these circumstances, students need not go through the appeal process.

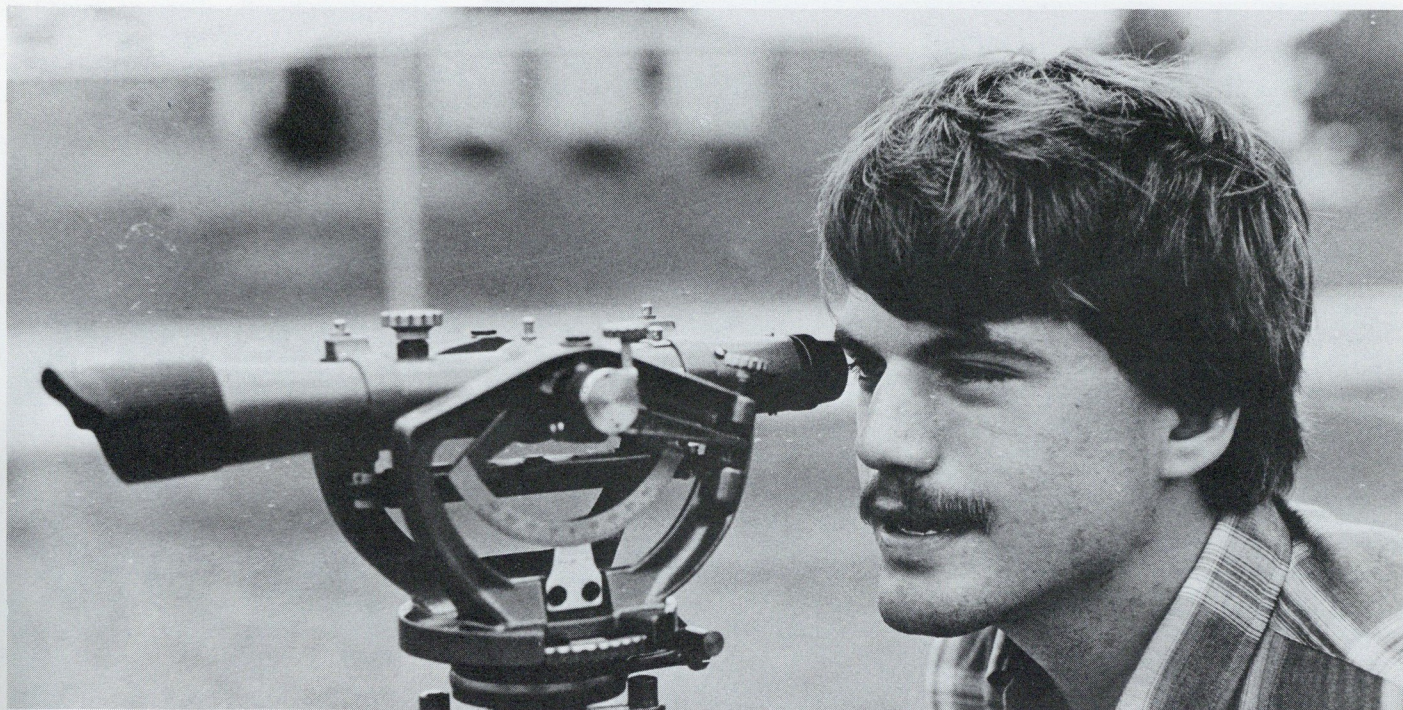
For further information concerning academic progress, see the Financial Aid Office Procedure Manual in the Financial Aid Office.

Other Duties and Responsibilities of Financial Aid Recipients

Students must report the following changes to the Financial Aid Office:

- (1) withdrawal from school,
- (2) a significant change in income,
- (3) added or dropped classes during the semester,
- (4) a name change,
- (5) change of address or change of parents' address,
- (6) transfer to another college.

Work study recipients must contact the Financial Aid Office for job placement within five (5) days of the beginning of the semester.



Hands-on experience is the key to Southern's drafting and design and other technical programs, as students survey their career options and focus on their goals.

Financial aid letters of credit must be signed by the person receiving aid. No other person may sign the letter of credit for the recipient.

Checks must be picked up in person and the student must present a student I.D.

Veterans must sign up for Veterans' Benefits at the beginning of each semester.

Students awarded Guaranteed Student Loans are responsible for procurement of loans from a lending agency.

Missouri Southern operates on a financial aid data entry system which requires the student's signature for any funds disbursed. After all fees and charges are paid, any balance of funds from a grant, loan, or other award is paid to the student at the end of the third week of school. Checks are issued in the Business Office; failure to pick up a check within two weeks of the date indicated by the Financial Aid Office may result in cancellation of the check.

COUNSELING CENTER

Missouri Southern students may receive individual personal counseling and professional testing and assessment in the Counseling Center located in Suite 114 of Hearn Hall. Professional staff members offer individual counseling for academic or personal concerns, a variety of tests and inventories, and referral services.

New Student Orientation

To assist all new students in the transition to college life, the College has designed an orientation program to help them become acquainted with college personnel, services, policies, and procedures. The program operates in small group settings with peer leaders to provide open discussion of all the factors that contribute to a successful college career. The eight-week course is offered at the beginning of fall and spring semesters and includes the assignment of an academic advisor for each student. Members of the counseling center staff serve as academic advisors for students who have not declared an academic major. Special coun-

seling programs are available for transfer and non-traditional students.

Testing Services

Testing services are available to prospective students as well as current students. Various standardized tests are administered and interpreted by professional personnel.

These tests include:

- (1) freshman placement tests (ACT tests, College Level Examinations Program Tests [CLEP], etc.),
- (2) interest inventories of educational or career preferences,
- (3) national tests for selected programs (Dental Hygiene Aptitude Tests [DHAT], National Teacher Exams [NTE], Entrance Examinations for Schools of Nursing [EESN], and Miller Analogy Test [MAT],)
- (4) GED (High School Equivalency) tests for the Missouri State Department of Education,*
- (5) Michigan Test of English Language Proficiency for international students,**

STUDENT SERVICES



Spring weather means "Spring Fling" on campus, a week of concerts and contests capped off with a picnic by the biology pond. Free food, free music, free sunshine!

- (6) proctor examinations for students taking correspondence courses.

*The GED testing program is offered as a service to the people of southwest Missouri who were unable to complete a high school education. The person making an acceptable score in the GED test will receive a high school equivalency diploma from the Missouri State Department of Education. Applications are available from the GED Test supervisor in the Counseling Center.

**All international students whose native language is not English, who transfer with 24 hours or more, and who do not have a TOFEL score of 500, will take the Michigan Test which is available by appointment.

Counselors for Special Students

Certified counselors and advisors are available for international students, veterans, and handicapped students.

Information and forms required by the U.S. Office of Immigration and Naturalization are available from the international student advisor who is the certifying official for the college concerning immigration matters. Students should contact the international student advisor regarding visa renewal, transferring to other schools, etc.

The Veterans' Counselor is the certifying official for the college and the contact person for the Veterans' Tutoring Program under Chapters 31, 34, or 35. Veterans' enrollment must be certified each semester and the Veterans' Counselor must be informed of any changes of enrollment during the semester.

A designated counselor will assist physically handicapped students with early enrollment, assistance in overcoming barrier problems, Readers for the Blind Program, and other matters of concern to these students.

Career Guidance

Students who have not declared an academic major or who are uncertain of a major may discuss career opportunities with a professional counselor. Interest and ability inventories are used by counseling staff members and a library of career materials is available.

The DISCOVER program, a computer based guidance system, is designed to assist students in clarifying values, assessing competencies and interests, making decisions, securing information on occupations, and selecting appropriate strategies to reach career goals.

Non-Traditional Student Program

Students who have been out of school for several years often have special concerns about returning to college. An advisor is available to assist returning adult students and workshops to ease the transition to college are offered periodically. A "Return

to Learn" course is offered each semester as the orientation course for returning adult students. SAGE, an organization for adult students, assists the expanding adult segment of the student population. The office of the counselor for non-traditional students is located in the Counseling Center, 114 Hearnese Hall.

STUDENT ACTIVITIES

The staff of the Student Activities Office work in close cooperation with the staff of Billingsly Student Center, Student Services personnel, and the Campus Activities Board in providing a variety of services for students, faculty, and staff at Missouri Southern.

Campus activities and programs are scheduled in the Student Activities Office and reservations for space and food service in Billingsly Student Center are made in this office. The office also handles ticket sales for off-campus activities and entertainment.

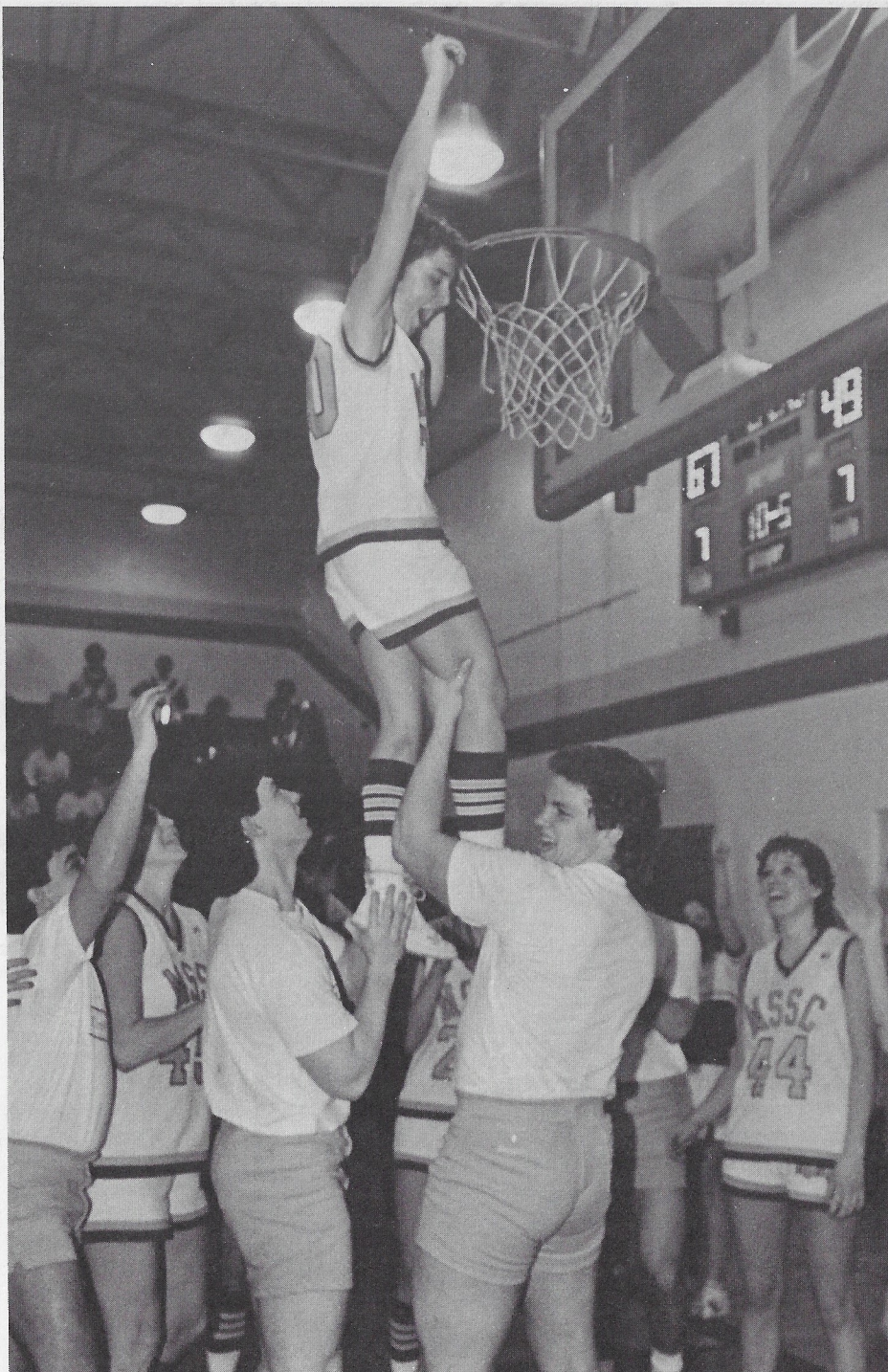
The Campus Activities Board (CAB), a volunteer organization made up of students and a student activity coordinator, has the responsibility for programming social, educational, and recreational activities for the entire college community. The CAB is funded from student activity fees. Students may volunteer to serve on one of the eight CAB committees: concerts, cultural affairs, dances, movies, speakers, special events, and tour and travel. Interested students may apply in the CAB Office on the lower level of Billingsly Student Center.

Student Government

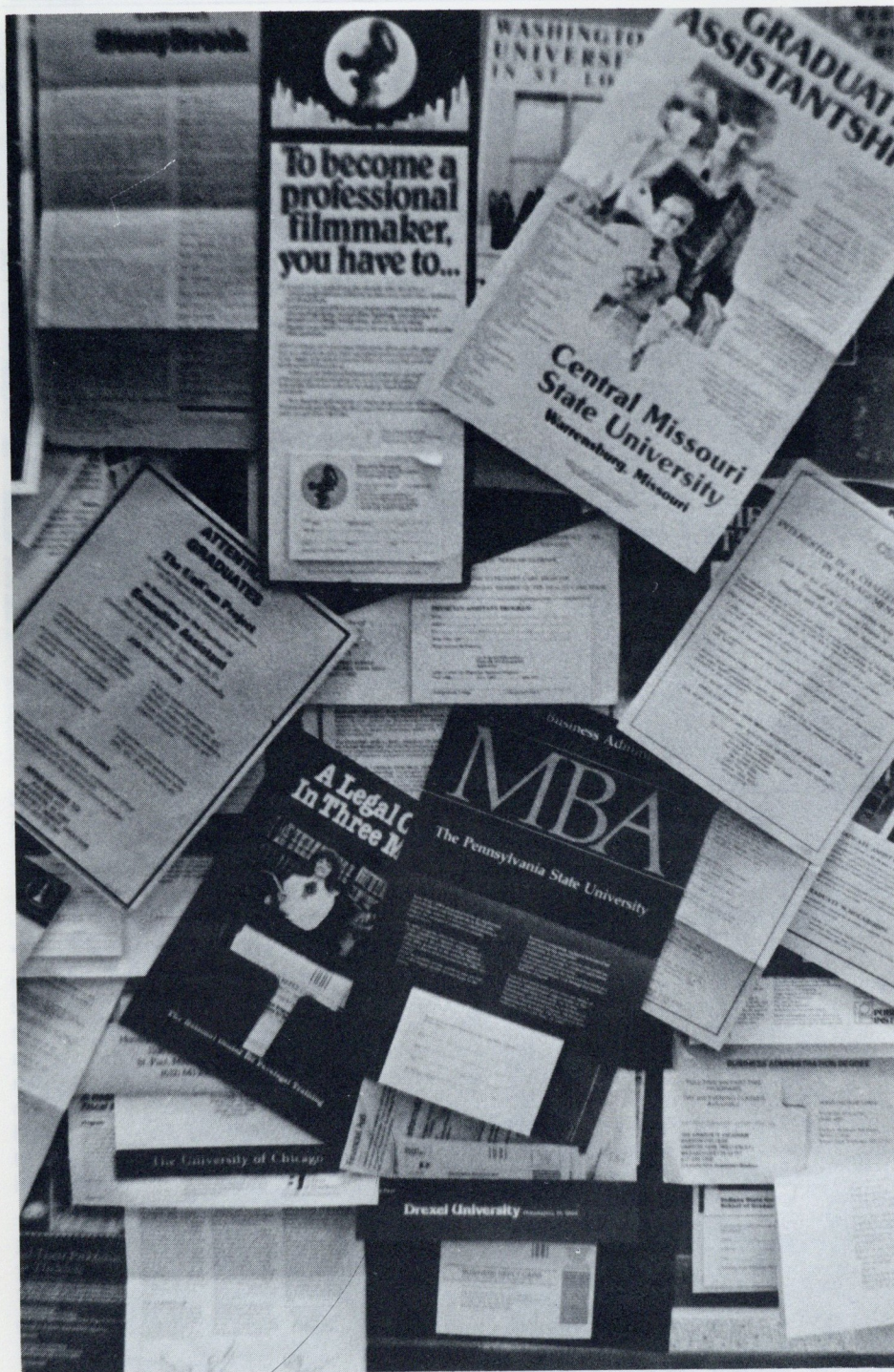
The Student Senate serves as the governing body for students and acts as liaison between the faculty and the student body. The responsibility for student government rests not only with the student officers, boards, and committees but also with each member of the student body. The Student Senate is made up of the executive officers, who are elected in the spring, and nine senators from each class who are elected in the fall.

Student Media

Missouri Southern publications and broadcasting activities provide laboratory ex-



The Lions compete in five varsity sports, and the Lady Lions in three. Both consistently compete for conference championships as well as national recognition.



A future could be waiting on the bulletin board outside the Placement Office. There is even more information on graduate school and career opportunities inside the office, as well as job counseling and interviewing with top companies and educational systems.

periences not only for English, art, journalism, and communications majors, but for all students interested in these activities. The student newspaper, *The Chart*, and the college yearbook, *Crossroads*, are published under the supervision of the Communications Department. An annual literary magazine, *The Winged Lion*, is published under the joint supervision of the English and art departments. Students in the communications program form the operations staff for MSTV, Missouri Southern's cable television station. These activities provide opportunities for creative art, creative writing, journalistic writing, and photography and serve as media for intellectual investigation and free and responsible discussion of campus, national, and international issues.

Placement Office

The Office of Career Planning and Placement, located in Room 207 of Billingsly Student Center, provides many services to Missouri Southern students and graduates.

While enrolled in college, students may ask the staff for help in finding part-time employment. Prospective graduates and alumni may enlist the staff's help in finding full-time employment. Representatives of business, industry, and educational institutions are invited to the campus to interview students for possible job openings.

The Placement Office also maintains a career library which contains information on major businesses, industries, and educational institutions. Information about graduate schools is available in this library along with information to aid students in choosing a career.

RESIDENCE HALLS

The Missouri Southern on-campus residence requirement is as follows: "All freshmen and sophomores are required to live in the Missouri Southern residence halls to the extent space is available unless they are married, live with their parents, live with a relative, or are excused by the Dean of Students."

The College provides residence hall accommodations and meals for over 500 full-



Approximately 15 hours a week of student-created television programming are broadcast on cable TV to three cities. A new satellite communications system is expanding the opportunities for students to learn skills to apply in the new information society.

time students. Concerned with the total needs of the students, the College maintains a safe and comfortable place to live and an adequate physical environment as well as opportunities for learning. The atmosphere in the residence halls contributes significantly to the students' personal growth and maturity.

The residence halls are staffed by two full-time professional head residents and 17 para-professional staff assistants. The governing body for resident students is the Residence Hall Association (RHA) which provides educational, social, and athletic programs for the students and acts as liaison between resident students and the College administration.

Residence hall rooms are fully furnished except for linens and personal items. Cable TV rooms, study lounges, recreational areas, personal computers, vending machines, coin-operated laundry facilities, and pay telephones are in the residence halls. Private telephones may be installed in individual rooms with the occupants responsible for installation charges and monthly billings.

Resident students are also entitled to food service. Twenty meals a week are served in the Student Center Cafeteria.

To reserve a room in a college residence hall, a prospective student should request an Application-Contract for Room and Board Accommodations from the Missouri

Southern Housing Office. The completed Application-Contract should be returned to this office with a \$75 security deposit. The deposit is retained by the College as long as the student is in residence and refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract, which is a combined contract for room and meals, is effective for the entire academic year (fall and spring semesters) or for the remaining portion of the academic year if entered into after the beginning of fall semester. Detailed terms will be found on the contract form.

The College is not responsible for the loss of, or damage to, any personal property of students.



Law enforcement, criminal justice, and ROTC students practice weapons skills on an indoor firearms range in the Police Academy building. Area police officers also return for periodic sessions to keep their skills sharp.

For detailed rules and regulations governing residence hall living at Missouri Southern, contact the Housing Office, Room 211, Billingsly Student Center.

STUDENT HEALTH SERVICES

The faculty and staff of Missouri Southern are as interested in students' physical and emotional well being as in their intellectual and cultural development. The Student Health Center, staffed with a full-time registered nurse and a physician on call, is open Monday through Friday from 8 a.m. to 4 p.m. All currently enrolled students are eligible for treatment at the center. Most services are free; however, students are expected to pay for laboratory, x-ray, emergency room, hospital services, prescriptions, and ambulance service.

A voluntary accident and sickness insurance plan for students is available from the Student Services Office, Room 211, Billingsly Student Center.

INTERCOLLEGIATE ATHLETICS

Missouri Southern's athletic program is based on the concept that intercollegiate

athletics are an integral part of the total educational process, subject to the same aims, policies, and objectives as other departments. The college's sound athletic program provides the benefits of athletic participation while assuring that athletes fulfill their responsibility as students. Though the primary concern is that the athletic program further the education process, the College is aware of the public attention that focuses on the institution through intercollegiate sports. While the public attention and the entertainment aspects of intercollegiate sports must be recognized, they are secondary in importance to the role of athletics in the total educational program.

The staff of the athletic department provides quality programs for students who express an interest in various sports. Male and female students have similar opportunities to participate in athletic activities with appropriate support.

The College is a member of the Central States Intercollegiate Conference and the National Association of Intercollegiate Athletics. College teams compete on the intercollegiate level in baseball, basketball, football, golf, soccer, softball, and volleyball.

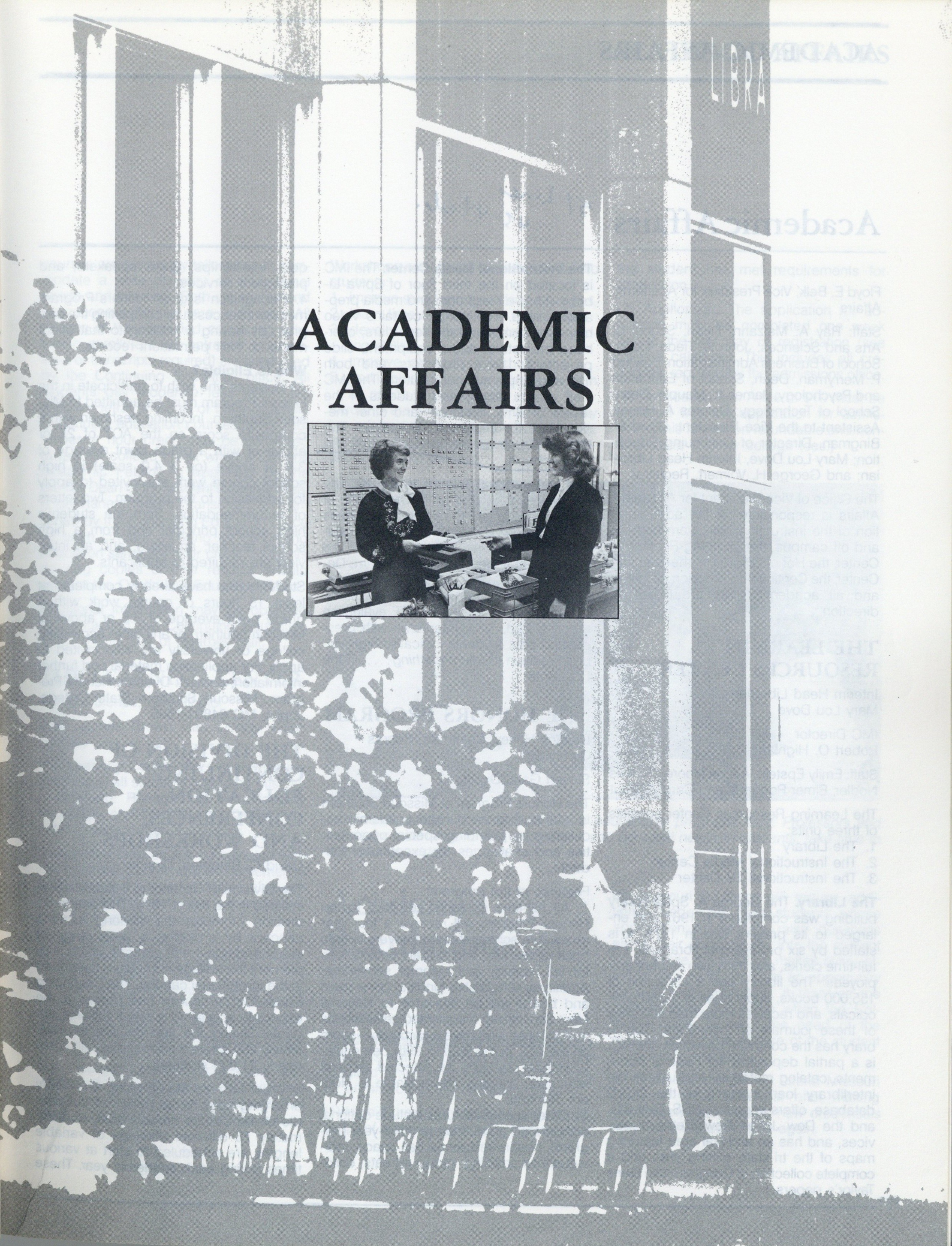
STUDENT CONDUCT

In order to provide the best possible environment for personal and intellectual growth, the College has established regulations to guide student conduct. A summary of these rules and regulations is found in the Student Handbook which may be obtained from the Office of the Assistant Dean of Students. Additional guidelines to insure the safety and comfort of resident students are in the Residence Hall Regulations which are available from the Director of Housing.

STUDENT IDENTIFICATION CARDS

The student identification card is produced by the College and issued to all full-time students as a means of personal identification. The College reserves the right to request a student to produce the I.D. card at any time deemed necessary. The student I.D. is a service to students currently enrolled who wish to use college facilities and services. The first I.D. card is free; replacement cost of a lost card is \$5.00.

ACADEMIC AFFAIRS



Academic Affairs

Floyd E. Belk, Vice President for Academic Affairs

Staff: Ray A. Malzahn, Dean, School of Arts and Sciences; John W. Tiede, Dean, School of Business Administration; Edward P. Merryman, Dean, School of Education and Psychology; James K. Maupin, Dean, School of Technology; Delores A. Honey, Assistant to the Vice President; David C. Bingman, Director of Continuing Education; Mary Lou Dove, Interim Head Librarian; and George H. Volmert, Registrar.

The Office of Vice President for Academic Affairs is responsible for the administration of the instructional program both on and off campus, the Learning Resources Center, the Honors Program, the Learning Center, the Continuing Education Program, and all academic units are under its direction.

THE LEARNING RESOURCES CENTER

Interim Head Librarian
Mary Lou Dove

IMC Director
Robert O. Highland

Staff: Emily Epstein, Arlene Moore, Charles Nodler, Elmer Rodgers, and Carolyn Trout

The Learning Resources Center consists of three units:

1. The Library
2. The Instructional Media Center
3. The Instructional TV Center

The Library. The George A. Spiva library building was completed in 1967 and enlarged to its present size in 1973. It is staffed by six professional librarians, five full-time clerks, and thirty-two student employees. The library has a collection of 155,000 books, subscribes to 1,350 periodicals, and receives more than 800 titles of these journals on microform. The library has the complete collection of ERIC, is a partial depository for Federal Documents, catalog materials, and utilizes the interlibrary loan systems of the OCLC database, offers access to BRS, DIALOG, and the Dow Jones News/Retrieval services, and has an archival area featuring maps of the tri-state mining area and a complete collection of Congressman Gene Taylor's papers.

The Instructional Media Center. The IMC is located on the third floor of Spiva Library. It has a classroom and media preparation area. The center contains video monitors, cameras, tape recorders, overhead projectors, audio equipment, slide projectors, 16mm projectors, and both IBM and Apple microcomputers. The IMC staff assists faculty and students in the review of films, filmstrips, and other media used for classroom purposes. The IMC is also available to teachers in the area schools.

The Instructional Television Center. The ITV center is located on the west side of the campus near the current business administration building. Two classroom studios are in operation in the center. The Department of Education, the Theatre Department, the Communications Department, and the School of Business use the studios extensively. A recent NCATE evaluation report stated, "... interviews with present and past students indicated high value in relation to *Microteaching*.... in the ITV center."

THE HONORS PROGRAM

Delores Honey, Chairman, Honors Committee

Steven Gale, Director

The Honors Program at Missouri Southern is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students.

Features of the program:

1. All full-time students admitted to the Honors Program will receive a four-year renewable scholarship that covers tuition, book rental fees, and student activity fees for fall, spring, and summer semesters. Additional scholarship funds to cover room and board will be available to National Merit Scholarship finalists and semi-finalists and to those who have a cumulative score on the ACT in the 98th or 99th percentile.
2. Honors sections of selected general education courses are available to Honors Students.
3. Other special features include optional accelerated graduation (a three-year program), honors residence hall space, individualized advising, group retreats, collo-

quia, internships, guest speakers, and placement services.

4. Recognition is given Honors Program members successfully completing the program by having a notation to that effect made on their permanent records.

Who is Eligible?

All students who wish to participate in the Honors Program must be admitted to Missouri Southern. Incoming freshmen with a composite score on the ACT of 27 or above or with a grade point average of 3.5 or above (on a 4.0 scale) in high school course work are invited to apply for admission to the program. Two letters of recommendation, from the student's high school principal and from a high school teacher, an essay, and an interview are required of applicants.

Students who have already completed at least 15 hours of course work with a grade point average of 3.5 or above at Missouri Southern or any other accredited college or university are also invited to apply. For application material and further information, contact: Director, Honors Program, Missouri Southern State College, Joplin, MO 64801-1595.

THE DIVISION OF CONTINUING EDUCATION, CONFERENCES, AND WORKSHOPS

David C. Bingman, Director

The Division of Continuing Education was initiated in the Fall of 1974. This academic division promotes the life-long learning concept by providing a wide range of credit and non-credit courses which supplement the college curriculum described in the institutional catalog. The Continuing Education curriculum has proven to be especially appealing to non-traditional students. During the first decade approximately 250 different courses have attracted nearly 21,000 students.

In order to meet the on-going and newly emerging educational needs of the people of the college service area, approximately 75 different offerings of variable lengths are scheduled to start at various times during each academic year. These

courses are especially tailored to accommodate a wide diversity of educational needs and interests. Both vocational and avocational offerings are available. All phases of the simplified continuing education enrollment (no entrance examinations or transcripts required) are conducted by the Continuing Education office. All students pay moderate fees which are used to defray the cost of the instruction. Continuing education courses offered for semester hour credit may be converted to regular college credit when a General Academic Petition is approved by the School Dean of the student's degree area. A permanent record (transcript) is maintained by the Continuing Education Office for each student enrolling for continuing education semester hour credit. Students desiring copies of their records should contact the Continuing Education Office.

Additional information may be obtained by contacting the Continuing Education Office, Room 103 of Hearn Hall.

THE LEARNING CENTER

Myrna Dolence, Coordinator

Staff: James Brown, Jan Dursky, Eillen Godsey

The Learning Center offers academic assistance to all students attending Missouri Southern. Recognizing the necessity for variety and flexibility, the Center provides a wide range of services.

Designated classes are coordinated with the Learning Center where supplemental instruction and alternative approaches are provided for students who are underprepared for college level work.

Other services include:

1. computer assisted programs in reading and writing,
2. peer and professional tutoring as requested,
3. audio/visual aids for class assistance,
4. supplemental class instruction through small groups.

The Learning Center's professional staff works with students both on an individual basis and in small groups to ensure that each student's needs are addressed.

Workshops are offered periodically to help students:

1. improve study and test-taking strategies,
2. learn time management techniques,
3. develop notetaking and textbook reading skills,
4. improve job seeking techniques,
5. and in other areas of academic concern as needs are identified.

Students are welcome to "drop in" or may be referred to the Center by a faculty member. All services are available without cost to the student.



Individual attention is a hallmark of the educational programs here. Professors and counselors, sensitive to the educational and personal needs of students, take time to talk and to guide.

Academic Regulations

Admissions

Credentials Required for Admission

Students with no college experience are required to furnish credentials as follows for admission to the freshman class:

- (1) High School Transcript. An official transcript of high school credits showing that

the student has met requirements for graduation.

- (2) Application. The application for admission must be completed one week before the first day of registration (see college calendar). This includes all credentials required by the admissions office.

- (3) Application fee. A fee of \$10 must be included with the application for admission. (This fee is non-refundable and non-applicable to other college fees.)

- (4) Missouri Southern will require additional credentials from students whose application credentials raise questions about their acceptability into the student body. While the College makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body are in question.

- (5) Students who do not attend Missouri Southern within one year after making application must submit new credentials when seeking admission again.

ACADEMIC REGULATIONS

(6) Admission to Missouri Southern does not automatically confer admission to the nursing program, radiologic technology, dental hygiene, etc. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the Department of Nursing Office, Kuhn Hall, the Radiology Department of St. John's Medical Center, or the Dental Hygiene Department Office. Applications should be submitted prior to March 1, preceding the Fall semester in which the student wishes to enroll. Each application is reviewed by the Admissions Committee of the respective department. See Nursing Department page 148, Dental Hygiene Department page 140, or Radiologic Technology page 150 under affiliated programs for full information on admission and acceptance criteria.

(7) Veterans who plan to attend under the G.I. Bill of Rights or Veteran's Orphans Act must present a certificate of eligibility at the time of registration.

(8) Former Missouri Southern State College, Junior College of Jasper County, and Joplin Junior College students must inform the Office of Admissions of their intention to return. When necessary, these students will be required to update their credentials.

(9) Admission for Residents of Missouri Any resident of Missouri who, (a) is a graduate of an accredited high school, (b) has participated in the American College Testing Program, and (c) pays a \$10 non-refundable application fee, is eligible for admission to Missouri Southern.

(10) Admission for Non-Residents of Missouri A non-resident of Missouri, in order to be eligible for admission to study as a first time freshman, (a) must be a graduate of a high school accredited by the Regional Association or by an appropriate accrediting agency of the home state, (b) must have participated in the American College Testing, (c) have a composite score of 15 on the American College Test, or must rank scholastically among the upper two-thirds of the graduating class, and

(d) must pay a \$10 non-refundable application fee.

(11) Admission by Transfer Students transferring from another collegiate institution must present credentials listed on page 31, plus:

(a) have official transcripts sent to the Director of Admissions by the Registrar from each collegiate institution attended, (b) be eligible to return to their last institution, (c) pay a \$10 non-refundable application fee. Individuals transferring to Southern who have not taken English or math or are seeking a degree in education must file ACT scores. Students seeking admission from other colleges with 55 transfer credit hours or more must present a minimum C (2.0 on a 4-point scale) average.

Transfer students must also take the senior year or 30 out of the final 36 hours in residence at Missouri Southern.

(12) Admission of International Students Students not citizens of the United States, who wish to apply for admission, should write the Director of Admissions, Missouri Southern, for the proper application forms and instructions. Three basic concerns apply to international student applications: (a) academic competency, (b) ability to read and speak the English language adequately for college level study, and (c) ability to finance the cost of education at Missouri Southern. All applicants from non-English speaking countries must pass the Test of English as a Foreign Language. Deadlines for completed Application for Admission:

Fall Semester—July 1

Spring Semester—November 1

Summer Semester—April 1

Special Admissions

Students meeting the above criteria shall be classified as "regular" students. Any one not meeting the above criteria will be classified as "other". Admission to the college through this "other" category is not automatic. The admission is governed by established policy (temporary, special, transient, credit-in-escrow, continuing education, or workshops,) or by approval of the Admissions Committee.

Temporary—In some instances, students may wish to enroll for a limited amount of

credit without submitting transcripts of previous academic work. This may be done with the following contingencies: (1) no more than 15 hours semester hours of credit may be earned in this manner, (2) credit earned while enrolled as a temporary student may not be counted toward a degree or certificate unless the student changes status, and (3) work beyond 15 semester hours will not be permitted until such time as all credentials are filed for regular admission.

Special—A person who has not graduated from high school but who has ACT test scores on file at the college may be admitted on a probational basis. A student admitted under this regulation must make a "C" average over the first semester's work to be eligible to return for the second semester. Upon successful completion of 30 semester hours, a student's status will change from "special" to "regular".

Transient—Students in good standing at other colleges and universities may wish to enroll at Missouri Southern for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the application form, payment of the \$10 non-refundable application fee, and a statement of good standing from the Vice President for Academic Affairs or Registrar of the student's home college or university.

Credit-in-Escrow—The credit-in-escrow program consists of college studies for outstanding high school students who have completed their junior year. They must have the approval and recommendation of the high school principal.

Credit held in escrow will not be transferred to another college or university. When the student enrolls as a regular college student and completes twelve (12) semester credit hours at Missouri Southern, the credit-in-escrow will be placed on the permanent academic record and may apply toward graduation requirements.

Continuing Education—Anyone wishing to enroll in a continuing education course should contact the Director of Continuing Education.

Workshop—All workshops offered on campus are coordinated through the Office of Continuing Education. Information regarding enrollment for workshops may be obtained by calling the Office of Continuing Education.

Other—Students admitted in the "other" category who wish financial assistance must be approved by the Admissions Committee when applying for financial assistance.

Admission to Special Programs Nursing Admissions (Associate Degree)

Admission to Missouri Southern does not automatically confer admission to the Nursing Program. In addition to meeting admission requirements for the college, candidates who are interested in a career in nursing as a Registered Nurse (R.N.) are required to apply for admission to the Department of Nursing office, Kuhn Hall. Applications should be submitted prior to February 1 preceding the Fall Semester in which the student plans to enroll. Each application is reviewed by the Selection Committee for the Department of Nursing.

In determining a candidate's eligibility for admission, basic qualifications compatible with the profession of nursing are given consideration including test results, demonstrated scholastic capability and references establishing personal abilities. Specific admission criteria are available from the Nursing Department in Kuhn Hall.

Based upon the Committee's evaluation, each applicant is placed in one of three categories: (1) approved for admission; (2) approved on condition that certain stated requirements are met; or (3) denied admission.

Nursing Admissions (Bachelor's Degree)

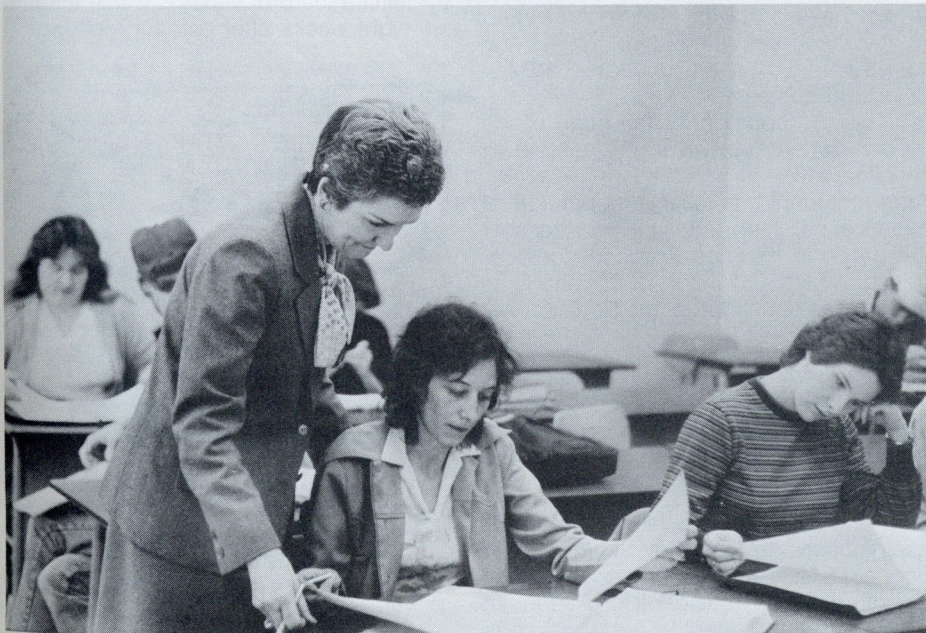
Admission to Missouri Southern does not automatically confer admission to the Baccalaureate Degree Nursing Program. In addition to meeting admission requirements for the college, candidates who are interested in the Baccalaureate Degree Nursing Program must apply for admission to the Department of Nursing. The application form may be obtained from the Department of Nursing, Kuhn Hall. Applications should be submitted prior to February 1 preceding the Fall

Semester in which the student plans to enroll. Each application is reviewed by the Selection Committee. The candidates must meet the following criteria:

- (a) current registered nurse licensure in State of Missouri (or eligible therefor),
- (b) have a minimum of one year work experience in nursing or two years out of the previous five years,
- (c) cumulative GPA of 2.5 (4.0 scale) or above on at least 30 credit hours of college level course work,
- (d) documentation of current professional liability insurance coverage,
- (e) graduate of state-approved or accredited basic nursing education program,
- (f) two recent work references and one personal reference,
- (g) personal interview.

Dental Science Admissions (Certificate and A.S.)

Enrollment in Dental Hygiene is limited. Admission to the college does not automatically convey admission to the Dental Hygiene curriculum; however, admission requirements of the college must be met before an applicant will be considered for admission to Dental Hygiene. Admission



Business and industry throughout the mid-west benefit from the carefully trained graduates of the School of Business Administration. Accounting students have established an enviable record for passing the rigorous CPA exam the first time around, and have distinguished themselves as partners in CPA firms and as owners of their own accounting businesses.

to Dental Hygiene requires special testing and other special requirements. Complete details may be obtained from the Dental Hygiene Department. Applications for admission to Dental Hygiene should be submitted to the Dental Hygiene Department before May 1.

Placement, Exams, Credits

Placement Tests

Missouri Southern participates in the American College Testing Program. Scores from this test battery must be presented as an admission credential within three years from the time the test was taken. These tests are administered at nationally approved test centers five times a year. Missouri Southern is a test center.

Resident Credits from Other Colleges

Credits transferred from accredited colleges will be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same length of time of instruction. Students may not transfer credits to satisfy more than one-half the major course requirements for a department unless they have the approval of the Vice President for Academic Affairs.

Transfer Of Resident Credits From A Junior College

Credits will be accepted by transfer from a junior college to meet lower division requirements only, up to a maximum of 64 hours. A minimum of 60 semester hours must be earned in a senior college. Students who have completed a college transfer course culminating in an Associate of Arts Degree from an accredited Missouri junior college are assumed to have fulfilled freshman and sophomore general education requirements. Students will be directed immediately into their major areas according to their preparation. Transfer students who have not accepted the Associate of Arts Degree as stated above will continue to be evaluated individually.

In most cases, not more than 64 semester hours of credit may be offered as advanced standing from a junior college.

If work is from both a junior college and a four-year college, the amount of credit accepted at the time of completing the junior college work usually may not exceed 64 semester hours. After a student has earned 64 semester hours, credit should not be taken at a junior college.

Advanced Standing Examination

A student whose travel, employment, extensive readings or other unique educational experiences appear to have provided proficiency in a course required in the curriculum equivalent to that ordinarily attained by those taking the course in regular class, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination. In addition to having the above qualifications, a student must, in order to receive credit for an advanced examination:

- (a) be enrolled in college at the time of the examination;
- (b) not have taken an examination over the course within the preceding six months;
- (c) not have credit in a more advanced course in the same field;
- (d) be working toward a degree at Missouri Southern;
- (e) have the approval of the head of the department in which the course is offered.

After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade, the Registrar will record the credit.

Students may initiate an examination in the CLEP Program by contacting the Director of Testing and Guidance. A student may initiate a departmental test with the head of the department.

After the student has taken the CLEP Examination, the test will be graded in Princeton, New Jersey. Scores will be sent to both the Vice President for Academic Affairs and the student. If performance is equated as a "C" grade, the Registrar will record the credit.

Missouri Southern participates in the CLEP General Examination Program. Entering

freshmen who have delayed college entrance by as many as three years since high school graduation may take the CLEP General Examination.

Three to six hours may be awarded in each of the five test areas. Credit will be granted only if the score is 500 or above on the mathematics, humanities, natural sciences, and social sciences and history tests. A score of 610 will be required on the English examination.

Validation Examinations

A student who has earned credit in a course which Missouri Southern refuses to accept because of the method in which the course was taken, or because the institution at which the course was taken was not accredited, may apply for a validation examination. In order to qualify for a validation examination a student must:

- (a) be enrolled in college at the time the examination is taken;
- (b) present the necessary evidence to prove that the course has been taken;
- (c) get approval from the Registrar, the School Dean and the Head of the Department in which the course is offered to take the examination;
- (d) initiate the proceedings within the first eight weeks after entering college.



Spiva Library offers a quiet place to study, in addition to providing thousands of resources, computer data base systems, and microform materials.



Moving day, and over 500 students will be settling into the dorms and residence halls on campus - finding new friends, encountering new ideas, and gaining maturity in the process.

The student initiates a request for examination at the Registrar's Office. The School Dean and the Department Head will appoint a professor to construct, administer, and evaluate the examination. The result is reported to the Registrar who records the grade if it is "C" or above.

Advanced Placement

Missouri Southern participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. Credits are granted for course areas in which a student has completed Advanced Placement Examinations with scores of 3, 4, or 5. No more than 6 hours of credit will be accepted with this program.

The Honors Program

Entering students will be governed by policies stated on page 30 of this catalog. In addition, students generally will not be admitted to the Honors Program after they have earned 30 credit hours. However, if such a student presents a plan to take the 24 honors hours required to complete the program, that student would be considered by the Honors Committee on an individual basis.

Catalog Time Limit

A candidate for a degree may use as a basis for degree requirements the general catalog issued for any year following the earliest date of registration in the college, so long as it is not more than five years prior to the date the degree is to be conferred. The candidate must have been in residence during the year of the catalog selected. The degree requirements in this catalog, 1985-87, became effective June 1, 1985.

BACCALAUREATE DEGREES

Residence — The student must have earned 30 of the final 36 semester hours in residence at Missouri Southern. (This regulation does not apply to three-one affiliation programs.)

Credit Hours — At least 124 semester hours of college credit applicable to a baccalaureate degree are required to qualify for graduation.

ACADEMIC REGULATIONS

Grade Point Average — Minimum cumulative and major field grade point average must be 2.0.

Upper-Division Hours — A minimum of 40 semester hours in upper division courses (those with numbers in the 300's and 400's) must be completed to meet the graduation requirements. Reasonable adjustments are made for three-one affiliation programs.

Foreign Language — All students expecting to graduate with a Bachelor of Arts degree must successfully complete 6-10 hours of the same foreign language as a graduation requirement.

Special Education — All students expecting to graduate with a Bachelor of Science Education degree must successfully complete 2 hours of Special Education (Educ 302) as a graduation requirement.

Time of Graduation — A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the spring semester. All students completing graduation requirements since the preceding commencement are expected to participate in the commencement activities.

Computer Literacy — All students will receive computer instruction to a level of understanding necessary for them to function as members of society and to a level of skill sufficient to use the computer for problem-solving within their discipline. Department heads will certify the competency of the students in their disciplines.

Major Field — A minimum of one-half the upper division credit hours must be earned in the major field. The grade point average for courses making up the major must be 2.0 or above. A minimum of 15 semester hours must be taken at Missouri Southern.

Placement Services — Each degree candidate must register in the Placement Office.

Degree Candidacy Application — Each student must make application for degree

candidacy when pre-registering for the final semester in the school year in which the degree will be received. The application form is available in the office of the Registrar.

Educational Methods Courses — These courses, including student teaching, are applicable only to the Bachelor of Science in Education degree.

Nursing Courses — Task oriented nursing courses are applicable only to the nursing major.

Correspondence, Extension, and TV Course Credit — A maximum of twelve semester hours of correspondence, extension, and TV course credit may be considered for a degree.

General Education Requirements — Missouri Southern has a program of general education that contributes toward the development of the whole person as an individual and as a member of society.

To accomplish this goal the student pursues a carefully planned and correlated program of courses. The courses selected to fulfill the General Education Requirements:

- (1) improve skills of communication and mathematical proficiency;
- (2) give an understanding of leading intellectual ideas of western civilization;
- (3) create an appreciation of our cultural and political heritage;
- (4) emphasize responsibility as a citizen;
- (5) aid in the development of creative and independent thought and expression;
- (6) provide knowledge and understanding of the physical universe;
- (7) develop awareness of the importance of health and physical fitness; and
- (8) afford experiences conducive to the development of strong character and personality.

BACCALAUREATE DEGREE REQUIREMENTS

	Credit Hours Required
Area 1. Basic Requirements	
A. English Composition (Eng. 101 and 102 or 103) or achievement of the required competency level which can be done in 3 hours (Eng. 111).	6

B. Communications (Select one)	3
Comm 100 Oral Communications	(3)
Comm 131 Voice and Articulation	(3)
Comm 303 Business & Professional Speech	(3)

C. Mathematics (110 or above)	3
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D. Physical Education:	4
HPER 101 Intro to P.E.	(2)
HPER 160 Personal Health	(2)

Total For Area 1: 16

Area 2. Humanities And Fine Arts

	Credit Hours Required
Literature (at any level for which the student is qualified, except Eng. 325)	3

Select two courses (not in same area of study:)	6
Art	(3)
Theatre	(3)
*Foreign Language (6-10)	
Literature	(3)
Music	(3)
Philosophy	(3)

*May be counted as one course only if the student had more than one course in the same Foreign Language.

Ten hours of one foreign language is required of all students graduating with the Bachelor of Arts Degree. See above.

The Bachelor of Arts degree students, who must take foreign language as a degree requirement, may apply three hours of foreign language taken beyond the degree requirement toward the humanities and fine arts general education requirements.

Total For Area 2: 9 Hours



Classroom teaching is a part of "going on the block", the final semester of training for education majors. Public schools throughout the region provide that last vital experience for the new professional.

ACADEMIC REGULATIONS

Area 3. Natural Science	Credit Hours Required
Biology	4
Physical Science	5
Total For Area 3:	9 Hours
Area 4. Behavioral and Social Sciences	Credit Hours Required
Hist 110 or 120 (U.S. History)	3
PSc 120 Gov't: U.S., State, Local	3
Econ 180 (or any other economics course for which the student might qualify. Students planning to major or minor in Business should take Econ 201).	3
Select One:	3
Psychology	(3)
Sociology	(3)
Economics	(3)
History	(3)
Political Science	(3)
Geography	(3)
Total For Area 4:	12 Hours
Total General Education Requirements	46 Hours

ASSOCIATE DEGREE

Associate of Arts Degree

Credit Hours — A minimum 62 semester hours must be completed.

Residence — The last 15 semester hours must be completed in residence at Missouri Southern.

Grade Point Average — Minimum cumulative and major field grade point average must be 2.0.

Major Field — The student must meet the course requirements of the particular preprofessional program selected. Or, the degree may consist of the general education courses plus additional hours adding up to 62, as approved by the advisor and the Vice President for Academic Affairs.

General Education Requirements — The degree requires completion of the following general education requirements:

Area 1. Basic Skills	Credit Hours Required
Eng 101-102 or 103, English Comp	6
Select One:	3
Comm 100, Oral Communications	(3)
Comm 131, Voice & Articulation	(3)
Mathematics (110 or above)	3
Physical Education	
Select One:	2
HPER 101, Intro to PE	(2)
HPER 160, Personal Health	(2)
Total For Area 1:	14 Hours

Area 2. Behavioral & Social Sciences	Credit Hours Required
Hist 110 or 120, History of United States	3
Select two:	6
History	(3)
Geography	(3)
Psychology	(3)
Sociology	(3)
Economics	(3)
Total For Area 2:	9 Hours

Area 3. Humanities and Fine Arts	Credit Hours Required
Any 3 hours of literature courses for which the student is qualified except Eng. 325.	3
Select One:	3
Mus 110, Music Appreciation	(3)
Art 110, Introduction to Art	(3)
Th 110, Theatre Appreciation	(3)
Phil 201, Introduction to Philosophy	(3)
Total For Area 3:	6 Hours

Area 4. Natural Sciences	Credit Hours Required
Any biological or physical science	4
Total For Area 4:	4 Hours
Total General Education Requirement—	33 Hours

Associate Of Science Degree

Credit Hours — A minimum of 62 hours must be completed.

Residence — The last 15 semester hours must be completed in residence at Missouri Southern.

Grade Point Average — The minimum cumulative and major field grade point average must be 2.0.

Major Field — The student must meet the course requirements in the particular program of study selected as approved by the advisor.

General Education Requirements — The degree requires completion of the general education courses as well as those outlined in the selected major field of study. The general education required courses are:

Area 1. Basic Requirements	Credit Hours Required
Eng 101, English Composition	3
Mathematics (30 or above)	3
Speech	3
Physical Education	
Select One:	2
HPER 101, Intro to PE	(2)
HPER 160, Personal Health	(2)
Total For Area 1:	11 Hours

Area 2. Social Science	Credit Hours Required
Select One:	3
Hist 110 or 120, History of the U.S.	(3)
PSc 120, Gov't U.S., State, Local	(3)
Select One:	3
Sociology	(3)
Psychology	(3)
Total For Area 2:	6 Hours

Area 3. Humanities and Fine Arts	Credit Hours Required
Select One:	3
Th 110, Theatre Appreciation	(3)
Phil 201, Introduction to Philosophy	(3)

Mus 110, Music Appreciation	(3)
Art 110, Introduction to Art	(3)
Literature, except Eng. 325	(3)
Total For Area 3:	3 Hours

Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, including, the study of American Institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the General Education Requirements meet the requirements of Missouri law. Out of state students who do not complete their general education at Missouri Southern must pass a special examination on the Missouri Constitution.

School Laws of Missouri 1974 requires that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless a course of two or more semester hours in the psychology or education of the exceptional child has been satisfactorily completed. This requirement can be met by taking Psy 302.

Commencement Requirements

Degrees are conferred only at scheduled commencement exercises. If a student completes requirements for a degree after a commencement date, the degree will be granted at the next scheduled commencement. A certified statement of completion of graduation requirements may be obtained at the office of the Registrar. No student will be permitted to participate in the commencement exercise whose name does not appear on the commencement program.

A student ready for graduation must be presented at commencement in order to receive a degree. However, a candidate may graduate in absentia with the permission of the Vice President for Academic Affairs.

GENERAL REGULATIONS

Classification of Students

Freshman: 0-29 Hours
Sophomore: 30-59 Hours
Junior: 60-89 Hours
Senior: 90 and above
Special Admission: See page 32

Post Graduate: Persons having completed a baccalaureate degree but taking courses for purposes of teacher certification, job preparation, an additional degree, or personal profit.

Full-Time: A student enrolled for 12 or more semester hours.

Part-Time: A student enrolled in 11 or less semester hours.

Dual Credit

A student who desires to earn credit concurrently at another institution or through correspondence, extension, advanced standing examinations, or USAFI examinations while enrolled in residence at Missouri Southern must secure advanced approval from the Vice President for Academic Affairs. Exceptions: Armed Forces Personnel will be granted sixty days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

Second Baccalaureate Degree

A student may receive a second Baccalaureate degree by completing the first degree and all the requirements of the second degree.

(Exception: Students may not count the professional education courses or task-oriented nursing courses of the first degree as electives toward the second degree). The "Residency" requirements do apply.

Transcript below "C" Average

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress, (see page 42) will be placed on Academic Probation. Missouri Southern accepts all grades from an equally accredited institution including both "D's" and "F's".

Area 4. Natural Sciences

Select One:	Credit Hours Required
Bio 100, General Biology	(4)
Physics	(5)
Chemistry	(5)
Geology	(5)
Total For Area 4:	4 Hours
Total General Education Requirements—	24 Hours.

Special Requirements

Physical Education Requirements

All students are required to satisfactorily complete four hours of physical education before they are permitted to graduate. Currently students must complete HPER 160, Personal Health, and HPER 101. HPER 101 is a two-credit hour course consisting of two hours of lab and one hour of lecture per week. Credit can be given only if both lab and lecture are completed.

Students should take these courses during the freshman and sophomore years. Those who meet the following conditions may be exempt from all or part of this requirement. Students who transfer from colleges where physical education is not taught will be exempt from the requirements as follows: (1) Students transferring less than 15 semester hours will not be exempt from any of the requirements; (2) Students transferring 15 to 29 semester hours will be exempt from 2 hours of physical education; (3) Students transferring 30 hours or more will be exempt from the 4 hours of physical education.

Upon presentation of proper documentation to the Registrar, a veteran may petition for exemption from physical education.

State Legislation Requirement

Sections 10373, 10374, 10374a, 10374b, 10374c (S.C.S. for S.B.4) of the Laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of

Maximum Credit Hour Load

To enroll in more than 18 semester hours during a semester or in more than nine hours during a summer session, a student other than a music major must obtain prior written permission from the school dean. Music majors may carry as many as 20 semester hours without permission from their Dean.

Late Registration

No student will be permitted to enroll in a regular semester after the second week of classes and in a summer session after

Dropping Courses

A student may initiate the dropping of a course in the Registrar's Office. Deadlines and grades cited below.

Adding Courses

A student may add a course in the Registrar's office, but only with the advisor's approval. A fee of \$5.00 will be charged each time a student changes a course not at the request of the college. No course may be added after the second week of classes in a regular semester and after the first week of classes in the summer session.



An extensive experimental psychology lab is used in an integral part of a number of courses in psychology, giving students opportunities to research perception and memory, biofeedback, animal behavior, and intelligence testing.

one week of classes. Any student enrolling after classes begin will pay a late enrollment fee.

Withdrawal from College

A student who wishes to withdraw will initiate withdrawal in the Office of Student Services (Hearnes Hall 130). A student who withdraws prior to the end of the ninth week of a regular semester and the end of the 25th day of a summer session will receive a "W" on the permanent record. If the student withdraws after these deadlines, courses will be listed on the permanent record with a grade of "F". A student who leaves school without officially withdrawing shall receive grades of "F" in all courses.

Class Attendance

The primary objective of student and professor is the student's attainment of course goals. It is recognized that normally those students who achieve well are regular in class attendance. The professor, when giving a final semester grade, bases an evaluation on how well the student has achieved the course goals.

Students who miss a class do so at their own risk and must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, college approved activities, and extenuating circumstances. The professor may require evidence to support the reason for absence. Students

absent two class meetings more than the credit hours of the course may be dropped from the course. However, if a grade of "C" or better is maintained, students cannot be dropped without their permission.

Because the attendance record is significant to the total record and useful in guidance and counseling, the professor keeps a record of individual class attendance. When absences are excessive, the professor will report the fact to Student Services who in turn will counsel with the student. The total number of student absences in a class will be reported to the Registrar's office along with the final grade at the end of the semester.

Students should be aware that absence from class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

Grades and Grading Policies

The essential purpose of grades is to differentiate accurately and appropriately among the students as to their achievement in course work.

Grading System

A student's grade is officially recorded by letter. Grade reports are normally available within one week after the semester closes. At Missouri Southern the following grades and their numerical equivalents are used:

Grade	GradePoints
A Outstanding	4
B Above Average	3
C Average	2
D Minimum Passing	1
F Failing	0
W Withdrawal —	

The current policy for the "W" is as follows:

- Course withdrawals will be permitted through the first week of the semester without any grade recorded.
- Course withdrawals during the second through the ninth week of the semester will be indicated by a "W" posted to the record.
- Course withdrawals are not permitted after the ninth week of the regular semester (or its equivalent). Exceptions to this

policy are infrequent and must be pursued by means of academic petition. A student who stops attending class without officially withdrawing is in jeopardy of receiving an F in the course.

I Incomplete — A grade of "I" may be reported if a student is unable to complete the course work within the semester for a valid reason such as illness, death in the family, an emergency, etc. It is not intended as a substitute for an F and does not entitle a student to attend the class during a subsequent semester. An incomplete must be made up by the end of the next semester (excluding summers). Arrangements must be made with the professor for the work necessary to change the incomplete to a regular grade. Both credit and grade points are suspended until the incomplete is converted to either a passing grade or an F.

AU Audit — A student may audit a class for no grade and no credit. Acceptable performance, attitude, and attendance as determined by the professor are expected. Regular fees and enrollment procedures are required. A student may not change enrollment from audit to credit nor from credit to audit. An audit means only that a student registered for the course. It does not imply any level of proficiency or knowledge.

Change of Grade

A change is initiated by the faculty member by filing a Change of Grade form with the Registrar. No change of grade is to be made without good cause. Exceptional cases will be reviewed by the immediate supervisor, School Dean, and Vice President for Academic Affairs.

Independent Study

Independent Study courses may be taken by outstanding students at the discretion of the faculty advisor and the appropriate college officials. Students may enroll in independent study courses for a total of three hours on the associate degree and a total of six hours on the baccalaureate degree providing they:

1. have completed
 - Associate Degree — 30 hours
 - Baccalaureate Degree — 90 hours
2. have a minimum cumulative 3.00 GPA

3. have permission of the advisor, Department Head, and the Dean of the School in the area of the independent study.

Independent study is designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Substituting independent study for a regular course is seldom approved.

Posting of Grades

College legal counsel advises that the public posting of a name and grade, or student number and grade, without the

student is entitled to two (2) free transcripts. Additional copies cost \$1.00 each. No transcript will be issued unless all bills to Missouri Southern are paid or are current according to agreement with the business office.

Academic Standards

Good Standing

Students enrolled at Missouri Southern are in good academic standing when they meet the normal progress toward graduation as described below. Those falling below the prescribed norm will be placed



Missouri Southern's faculty are first and foremost - TEACHERS. Although a professor may often pursue limited research or writing in a special field, the primary focus is on the real mission of Missouri Southern - TO TEACH.

student's approval, is a violation of the Buckley Amendment (Family Educational Rights and Privacy Act of 1974) which does not allow disclosure of recorded data or information without the individual's written consent.

Official Transcripts

An official transcript of the student's academic record bears the Registrar's signature and the college seal. Missouri Southern assumes no responsibility for the accuracy of a transcript after it leaves the Registrar's office.

Up to two weeks must be allowed after the close of a semester for the issuance of an up-to-date transcript. The transcript request must be made in writing. Each

on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension.

Exception: Students receiving financial aid. See Pages 18, 43.

Those students competing in intercollegiate athletics or in organizations representing the college off campus are ineligible to participate in these programs when they fall below the norms set for minimum standards of progress.

Academic Bankruptcy

A student may petition the Academic Bankruptcy Committee that one semester of academic work be disregarded in com-



Careful advising by faculty helps students plan the best sequence of courses to meet their individual goals while completing the required courses in both a major and minor field.

puting the academic record. To be eligible for petitioning, a student must be currently enrolled, in good standing, and must document the unusual conditions which justify the petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.

Remedial Courses

Occasionally scores obtained from the placement tests indicate a student may not be successful in college. Missouri Southern reserves the right to require these students to take pre-college courses in mathematics, language arts, and reading.

Standards of Progress Toward Graduation

A student's cumulative grade point average (GPA) is used to evaluate progress. If the grade point average falls below the minimum standards of progress, work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

A. For Associate Degree Candidates

Hours Attempted	Grade Point Average
1 — 22 semester hours	1.6
23 — 33 semester hours	1.7
34 — 44 semester hours	1.8
45 — 55 semester hours	1.9
56 & Above	2.0

B. For Baccalaureate Degree Candidates

Hours Attempted	Grade Point Average
1 — 22 semester hours	1.5
23 — 44 semester hours	1.6
45 — 66 semester hours	1.7
67 — 88 semester hours	1.8
89 — 110 semester hours	1.9
111 & Above	2.0

Academic Probation, Suspension, and Reinstatement

Each student should consider a grade point average of less than 2.0 as a warning.

Those falling below the standards of progress toward graduation will be placed on academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the college.

A student receiving academic suspension must stay out of Missouri Southern one semester.

A student completing a semester of suspension must re-apply for admission through the Office of the Registrar.

Re-entry may be denied by the Vice President for Academic Affairs if the student cannot present evidence that indicates a high probability of academic success.

Repetition of Courses

A course in which a student has made a grade of D or F may be repeated. The grade and grade points in the repeated class will be cancelled and the second grade will be used in computing grade point averages.

298-498 Classes

Classes numbered 298 or 498 may not be counted toward General Education credit.

Honor Roll

An Honors or Dean's List, issued at the end of each semester, contains the names of full-time students who have a 3.75 grade point average or higher with no "I" grade or a grade below "C".

Graduation Honors

In recognition of superior scholarship, the College awards honors to associate degree and baccalaureate degree graduates as follows:

Associate Degree — The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern. The cumulative

grade point average required to receive:

First Honors	3.90
Second Honors	3.75
Third Honors	3.50

Baccalaureate Degree: Eligibility for any one of the following three honors requires the candidate to study all the junior and senior years at Missouri Southern and earn a minimum of 60 hours of credit:

Cum Laude	3.50 — 3.74
Magna Cum Laude	3.75 — 3.89
Summa Cum Laude	3.90

Course Numbers and Levels

Course Numbers:

0 — 29	Applicable toward the associate degree as elective credit only.
30 — 99	Applicable toward the associate degree only
100 — 199	Primarily for freshmen
200 — 299	Primarily for sophomores
300 — 399	Primarily for juniors
400 — 499	Primarily for seniors

Normally courses numbered 100 — 299 are considered junior or lower division level courses, and those numbering 300 — 499 are senior or upper division level courses. There are more significant distinctions between the sophomore and junior years than within the levels of the lower and upper divisions.

The student should check the catalog description of the course to see whether the second semester of a sequence course makes the first semester a prerequisite.

Freshmen are not permitted to take any course above the 200 level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered are listed in the appropriate school section of the catalog. Immediately following each course title is a letter abbreviation of the semester in which this course is to be offered. Students and faculty should use this as a guide in considering future enrollment. HOWEVER, THIS SHOULD NOT BE INTERPRETED AS A CONTRACT. MISSOURI SOUTHERN STATE COLLEGE RESERVES THE RIGHT TO DEVIATE FROM THIS COMMITMENT WHEN ENROLLMENT, OR OTHER FACTORS DICTATE.

Major or Area of Interest

All students will be required to declare their degree, their major (or area of interest), their status (regular or other), and whether they will attend part-time or full-time.

Veteran's Benefits

The Revised Standards for Veteran's Educational Benefits as adopted by the State Board of Education on February 17, 1977, are available in the Veteran's Affairs Office. Each Veteran should see the veteran's counselor or veteran's representative regarding these policies.

Special Policies for Financial Aid Recipients

Special policies and regulations governing financial aid recipients are filed in the Financial Aids Office, the Business Office, and the Office of the Dean of Students.

ACADEMIC REGULATIONS



There is no teacher like experience, as dental assisting and hygiene students provide oral exams, cleaning, x-rays, and other important services to area families for a nominal cost. The clinic, supervised by local dentists, is open two days a week as part of the regular dental curriculum.

THE SCHOOL OF ARTS AND SCIENCES



SCHOOL OF ARTS AND SCIENCES

SCHOOL DEAN:

Ray A. Malzahn

DEGREES AND MAJORS

Bachelor of Arts

Art
Communications
Chemistry
English
History
Music
Political Science
Sociology
Spanish
Theatre

Bachelor of Science

Biology
Chemistry
Mathematics
Physics
Sociology

Bachelor of Science in Education

Art
Biology
Chemistry
English
Mathematics
Music
Physics
Social Science
Spanish
Speech-Theatre

OPTIONS AND EMPHASES

Art (B.A.)

Studio Art
Graphic Communications

Communications (B.A.)

Speech Communications
Mass Communications

Music (B.S.E.)

Instrumental
Vocal

Double Certification

Social Sciences (B.S.E.)

History
Political Science
Sociology

MINORS:

See Departments

ROLE:

Consisting of seven departments and thirteen major disciplines, the School of Arts and Sciences has two primary roles. One is to provide the foundation of all higher education called the liberal arts or general education component. The other is to educate students for professional careers and for graduate school. The liberal arts component is designed to meet the needs of the individual and of society, needs which include value clarification, analytical thinking, effective communication, knowledge of history, understanding of our universe and environment, ability to participate in government, and appreciation of the fine arts.

SCOPE:

The School of Arts and Sciences has three principal responsibilities: teaching, research and creative activities, and community service.

Quality teaching, the first responsibility, is essential to sound academic programs. Consequently, teaching is important to liberal arts and is the major role of the faculty. In the School of Arts and Sciences, the faculty strive to educate students both deeply within a discipline and widely across disciplines; deeply, to help them achieve excellence and widely, to help them develop a lifelong habit of self education and thus readily adapt to change.

The second responsibility of the School of Arts and Sciences is scholarly research and creative activity. The aim of scholarly research is both improvement of teaching and advancement of knowledge. The aim of creative activity and performance is to enrich the participant's understanding and proficiency both as a teacher and as an artist and to enhance the cultural opportunities of the community.

The third responsibility of the School of Arts and Sciences, one which is closely related to the first two, is community service as an academic and cultural resource. The School functions as an academic resource by consulting and providing academic expertise to solve community problems. It functions as a cultural resource by presenting to the public films, arts exhibitions, dramatic productions, and musical concerts and recitals.

ART

FACULTY:

Fowler, Head; Christensen, Cole, Hess

Career opportunities available for the qualified Bachelor of Arts degree graduates are in commercial art, free-lance, and private studio lessons. This degree also prepares the graduate for an advanced degree on the masters level in a specific art discipline. The Bachelor of Science in Education (Art) degree graduates are certified through the teacher education program for K-12, 7-9 or senior high school levels in the State of Missouri.

Degree requirements in the four Art programs B.A.—(studio emphasis), B.A. (graphic communications), B.S.E. (one of two teaching fields), B.S.E. (single teaching field)—are such that it is extremely important that students majoring in Art meet with their faculty advisor each semester. Students are responsible for contacting their advisor after completing twenty-one (21) semester hours in Art to make application for their Junior Review. For this review, students are required to submit a representative sampling of their creative work, a record of academic progress, and a statement of intent and/or objectives for examination by a committee of the Art faculty. Written permission of the Junior Review Committee is required for a student to enroll in Art 490, Senior Exhibit. The committee meets at the beginning of each fall and spring semester. Entering transfer students must make application for the review during their first semester. Application forms and more detailed information are available in the Department of Art Office, Room 303, Art Building.

General Education requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by any Art course.

BACHELOR OF ARTS WITH A MAJOR IN ART EMPHASIS I

STUDIO ART

Semester Hours

General Education Requirements
(see pages 36, 38)

46

Computer Literacy Requirement—
determined by the Art
Department

2-3

**Foreign Language (two courses
in one language) 10**
Art Requirements 53

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing*	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture*	3
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 232 Beginning Painting*	3
Art Art History or Seminar (upper division)	9
Art 312 Beginning Printmaking*	3
Art 490 Senior Exhibit*	2
Art Electives (300-400 level courses)	18
Electives	12-13 124**

*See Prerequisites

**Must include at least 40 upper division
(300-400 level) hours.
**BACHELOR OF ARTS WITH A
MAJOR IN ART
EMPHASIS II
GRAPHIC COMMUNICATIONS**

Semester Hours

**General Education Requirements (see
pages 36, 38) 46**
**Computer Literacy Requirement—
determined by the Art
Department 2-3**
**Foreign Language (two courses
in one language) 10**
Art Requirements 53

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing*	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture*	3
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 232 Beginning Painting*	3
Art Art History or Seminar (upper division)	9
Art 300 Advanced Drawing*	3
OR	
Art 421 Life Drawing*	3
Art 310 Watercolor*	3
Art 312 Beginning Printmaking*	3
Art 325 Graphic Communi- cations I*	3
Art 350 Graphic Communi- cations II*	3

Art 425 Graphic Communi- cations III*	3
Art 450 Graphic Communi- cations IV*	3
Art 490 Senior Exhibit*	2
Electives**	12-13 124***

*See Prerequisites

**Suggested Elective Courses:

OA 101 Typewriting	3
Draf 110 Beginning Drafting	3
Comm 120 Mass Communica- tions	3
CJAd 210 Beginning Photog- raphy	3
MM 300 Principles of Mar- keting	3
Bus 320 Business Corre- spondence	3
MM 401 Promotional Strategy	3
TH 441 Stage Design	3

***Must include at least 40 upper
division (300-400 level) hours.
**BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR IN
ART**
**PLAN A
ONE OF TWO TEACHING FIELDS**

Semester Hours

**General Education Requirements
(see pages 36, 38) 46***
Art Requirements 42

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing**	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	3
Art 230 Basic Form**	3
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History (upper division)	9
Art Electives	6

**Second Teaching Field (some fields
exceed 30 hours) 30**
**Education Certification Require-
ments (see pages 117, 118) 37
149*****
*Required courses in Art and Psychology
satisfy Major requirements and 6 hours of
General Education.

**See Prerequisites

*** (varies with 2nd Field)

**BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR IN
ART**
**PLAN B
SINGLE TEACHING FIELD**

Semester Hours

**General Education Requirements
(see pages 36, 38) 46***
Art Requirements 50

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing**	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	3
Art 132 Introduction to Design	3
OR	
Art 230 Basic Form**	3
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History or Seminar (upper division)	9
Art 490 Senior Exhibit*	2
Art Electives	15

**Education Certification Require-
ments (see pages 117, 118) 37
127**
*Required courses in Art and Psychology
satisfy Major requirements and 6 hours of
General Education.

**See Prerequisites

MINOR IN ART

Semester Hours

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing*	3
Art 312 Beginning Printmaking*	3
Art 211 Beginning Sculpture*	3
OR	
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 110 Art Appreciation	3
OR	
Art Art History	3
Art 232 Beginning Painting*	3
OR	
Art 310 Watercolor*	3
21	

*See Prerequisites

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1002

Art Major

EMPHASIS I: STUDIO ART FRESHMAN YEAR

1st Semester		Hours
Course		
Art 100	Art Composition	3
Gen Ed	[Eng 101 English Composition]	3
Psy 120	Freshman Orientation	1
Art 130	Beginning Drawing*	3
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[Econ 180 American Economic System]	3
		16

2nd Semester

Course		Hours
Art 132	Introduction to Design	3
Gen Ed	[Eng 102 English Composition]	3
Gen Ed	[Math 110 Intro to College Math]	3
Art 205	Beginning Jewelry*	3
OR		
Art 230	Basic Form*	3
Gen Ed	[HPER 101 P.E. Activity]	2
Gen Ed	[HPER 160 Personal Health]	2
		16

SOPHOMORE YEAR

1st Semester		Hours
Course		
Art 120	Beginning Ceramics	3
Gen Ed	[Bio 101 General Biology]	4
Art 232	Beginning Painting*	3
Gen Ed	[Humanities and Fine Arts—not Art]	3
Gen Ed	[Comm 100 Oral Communications]	3
		16

2nd Semester

Course		Hours
Art 211	Beginning Sculpture*	3
Art 312	Beginning Printmaking*	3
Gen Ed	[Phys 100 Fund of Physical Science]	5
Electives		3
Art	Art History**	3
		17

JUNIOR YEAR

1st Semester		Hours
Course		
Art	Art History**	3
Gen Ed	[Foreign Language]	5
Art	Electives	3
Gen Ed	[PSc 120 Gov't U.S., State, & Local]	3
Gen Ed	[Behavioral and Social Sciences]	3
		17

2nd Semester

Course		Hours
Art	Art History*	3
Gen Ed	[Foreign Language]	5
Art	Electives approved by the advisor	6
Gen Ed	[Literature]	3
		17

SENIOR YEAR

1st Semester		Hours
Course		
Art 490	Senior Exhibit*	2
Art	Electives approved by the advisor***	6
Art	Any computer course approved by the advisor	2-3
Electives	Approved by the advisor**	6
		16-17

2nd Semester

Course		Hours
Art	Electives approved by the advisor***	6
Electives	Approved by the advisor***	6
		12

*See Prerequisites

**9 hours required—select from Art 301, 302, 303 or 304 Art History

***select from 300 or 400 level courses

[] Department Recommendation

BACHELOR OF ARTS

Major Code 1002

Art Major

EMPHASIS II: GRAPHIC COMMUNICATIONS

FRESHMAN YEAR

1st Semester		Hours
Course		
Elective	[Draf 110 Introductory Drafting]	3
Art 100	Art Composition	3
Gen Ed	[Eng 101 Composition]	3
Art 110	Art Appreciation	3
Psy 120	Freshman Orientation	1
Art 130	Beginning Drawing*	3
		16

2nd Semester

Elective		Hours
[OA 101 Typewriting]		3
Art 132	Intro to Design	3
Gen Ed	[Eng 103 Technical Writing]	3
Gen Ed	[Math 110 Intro to College Math]	3
Art 205	Beginning Jewelry*	3
OR		
Art 230	Basic Form*	3
Gen Ed	[HPER 101 P.E. Activity]	2
		17

SOPHOMORE YEAR

1st Semester		Hours
Elective	[CJAD 210 Beginning Photography]	3
Art 325	Graphic Communications I	3
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[Comm 103 Business & Professional Speech]	3
Art 232	Beginning Painting*	3
		16

2nd Semester

Course		Hours
Art 350	Graphic Communications II*	3
Gen Ed	[Literature]	3
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Phys 100 Fund of Physical Science]	5
Art 120	Beginning Ceramics	3
OR		
Art 211	Beginning Sculpture*	3
		16

JUNIOR YEAR

1st Semester		Hours
Art 310	Watercolor*	3
Art 312	Beginning Printmaking*	3
Gen Ed	[Foreign Language]	5
Art 425	Graphic Communications III*	3
Gen Ed	[Hist 110 or 120 U.S. History]	3
		17

2nd Semester

Art 450		Hours
Graphic Communications IV* ***		3
Gen Ed	[Foreign Language]	5
Gen Ed	[Any Economics course]	3
Gen Ed	[PSc 120 Gov't U.S., State, & Local]	3
Gen Ed	[Behavioral and Social Sciences]	3
		17

SENIOR YEAR

1st Semester		Hours
Elective	[MM 300 Principles of Marketing]	3
Gen Ed	[Humanities and Fine Arts—not Art]	3
Art 300	Advanced Drawing*	3
Art	Art History or Seminar**	3-6
Art 490	Senior Exhibit	2
		14-17

2nd Semester

Elective		Hours
[Bus 320 Business Communications]		3
Elective	[MM 401 Promotional Strategy]	3
Art	Art History or Seminar**	3-6
Elective	[Comm 120 Mass Communications]	3
		12-15

*See Prerequisites

**9 hours required—select from Art 301, 302, 303, 304, or 305.

***Satisfies departmental requirement for a computer application course.

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0831

Art Major (Plan B)

Single Teaching Field

FRESHMAN YEAR

1st Semester		Hours
Course		
Art 100	Art Composition	3
Art 130	Beginning Drawing*	3
Gen Ed	[Eng 101 Composition]	3
Phy 120	Freshman Orientation	1
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[HPER 101 P.E. Activity]	2
Gen Ed	[Econ 180 American Economic System]	3
		18

2nd Semester

Art 120		Hours
Beginning Ceramics		3
Art 132	Introduction to Design	3
Gen Ed	[Psy 110 Human Growth & Development]	5
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[Math 110 Intro to College Math]	3
		17

SOPHOMORE YEAR

1st Semester

Art 205	Beginning Jewelry*	
OR		
Art 230	Basic Form*	3
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Bio 101 General Biology]	4
Art 232	Beginning Painting*	3
Gen Ed	[Comm 100 Oral Communications]	3
		15

2nd Semester

Art 211	Beginning Sculpture*	3
Art 312	Beginning Printmaking*	3
Gen Ed	[Phys 100 Fund. of Physical Science]	5
Gen Ed	[PSc 120 Gov't U.S., State, & Local]	3
Gen Ed	[Literature]	3
		17

JUNIOR YEAR

1st Semester

Art	Art History**	3
Educ 300	Clinical Experiences	2
Educ 330	Structures of Teaching Secondary	2
Educ 331	Microteaching	2
Educ 370	Introduction to Instructional Media	2
Art	Electives	6
		17

2nd Semester

Art	Art History**	3
Psy 302	Exceptional Child	2
Psy 310	Educational Psychology	2
Educ 401	Use of Computer Software in Classroom***	2
Art	Electives	6
Gen Ed	[Behavioral and Social Sciences]	3
		18

SENIOR YEAR

1st Semester

Art 490	Senior Exhibit*	3
Art	Electives	6
Educ 422	Reading in Secondary Schools	2
Art	Art History**	3
		14

2nd Semester

Professional semester		16
Consult pp. 117, 118 for specific course requirements		

*See Prerequisites

**9 hours required-select from Art 301, 302, 303, or 304—Art History.

***Satisfies departmental requirement for a computer application course.

[] Department Recommendation

After accumulating 21 hours in Art, students should make application for their Junior Review via their advisor.

Consult catalog for requirement for Plan A (Art instruction/certification for one of two teaching fields).

For additional information contact:

Mr. Jon Fowler
Office: 303 Art Building
Phone: Ext. 263

BIOLOGY

FACULTY:

Prentice, Head; Elick, Gibson, Hendrix, Jackson, Messick, Orr, Stebbins, Tillman

For the Biology, Biology Education, or Environmental Health Technology major, a required core of courses is offered that has been proven appropriate by student input, postgraduate survey, professional and graduate school acceptances, job placements, performance and accrediting agencies. The remaining requirements to complete these majors are designed to allow students to orient themselves toward specific career goals. Additional requirements for appropriate mathematics and physical science courses are specified to augment the courses taken in the major.

The Biology Department offers three courses to satisfy the General Education requirement of a biological science course with laboratory—General Biology (Bio 101) or Man and Environment (Bio 110) or General Zoology (Bio 121).

BACHELOR OF SCIENCE WITH A MAJOR IN BIOLOGY

Semester Hours

General Education Requirements
(see pages 36, 38) 46* **34**

Computer Literacy Requirement
determined by the Biology Department **2-3**

Biology Requirements **40**

Bio 101 General Biology	4
Bio 112 Botanical Survey**	3
Bio 122 Zoological Survey**	3
Bio 210 General Physiology**	4
Bio 211 Microbiology**	
OR	
Bio 231 Medical Microbiology**	5
Bio 305 Genetics**	4
Bio 490 Seminar**	1
Upper Division Botany Elective**	3-4
Upper Division Zoology Elective**	4-5
Upper Division Environmental Elective**	4
Biology Electives	3-5

Supporting Requirements **25**

Math 140 Algebra and Trigonometry**
OR

Math 150 Calculus with Analytic Geometry I**	5
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 300 Introduction to Modern Organic Chemistry**	
OR	
Chem 301 Organic Chemistry I**	5
Phys 151 Elementary College Physics I**	5

Electives **4-9**
124***

*Required courses in Biology, Mathematics, and Chemistry satisfy Major requirements and 12 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

It is strongly recommended that PreProfessional Students take Chem 302 and Phys 152.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN BIOLOGY

PLAN A

ONE OF TWO TEACHING FIELDS

See: Minors-Biology Education

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN BIOLOGY

PLAN B

SINGLE TEACHING FIELD

Semester Hours

General Education Requirements
(see pages 36, 38) 46* **31**

Computer Literacy Requirement—
determined by the Biology Department **2-3**

Biology Requirements **35**

Bio 101 General Biology	4
Bio 112 Botanical Survey**	3
Bio 122 Zoological Survey**	3
Bio 211 Microbiology**	
OR	
Bio 231 Medical Microbiology**	5
Bio 305 Genetics**	4
Bio 306 Human Physiology and Anatomy**	5
Upper Division Biology Electives	11

Supporting Requirements

Math 140	Algebra and Trigonometry**	5
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 300	Introduction to Modern Organic Chemistry**	
OR		
Chem 301	Organic Chemistry I**	5

Education Certification Requirements (see pages 117, 118)

Elective 0-1

124

*Required courses in Biology, Chemistry, Mathematics, and Psychology satisfy Major requirements and 15 hours of General Education.

**See Prerequisites

ENVIRONMENTAL HEALTH TECHNOLOGY SEE: ENVIRONMENTAL HEALTH TECHNOLOGY

MINORS IN BIOLOGY

Minor in Biology (Botany-Horticulture Emphasis)

	Semester Hours
Chem 100 Introductory Chemistry	5
Bio 101 General Biology	4
Bio 112 Botanical Survey	3
Bio 316 Economic Botany	3
Bio 271 Principles of Plant Propagation	3
Bio 498 Plant Pathology	4
Bio 322 Taxonomy of Flowering Plants	4
Bio 332 Introduction to Entomology	3
Bio 499 Problems in Biology (1-3 hrs.) OR	
Bio 450 Internship in Biology (1-8 hrs.)	1-8

30-37

Minor in Biology (Zoology-Health Science Emphasis)

	Semester Hours
Bio 101 General Biology	4
Bio 122 Zoological Survey	3
Bio 331 Comparative Anatomy	5
Bio 431 Animal Physiology	5

Bio 433	Histology (4 hrs.)	
OR		
Bio 462	Embryology (5 hrs.)	4-5
Bio 422	Invertebrate Zoology (5 hrs.)	
OR		
Bio 361	Parasitology (4 hrs.)	4-5
Bio 499	Problems in Biology	1-3

26-30

Minor in Biology (Environmental Health Emphasis)

	Semester Hours
Bio 110 Man and Environment	4
Bio 231 Medical Microbiology	5
Bio 312 Environmental Biology	
OR	
Bio 370 Environmental Health	4
Bio 499 Problems in Biology (1-3 hrs.)	
AND/OR	
Bio 450 Internship in Biology	
(1-8 hrs.)	1-8
Upper Division Biology Electives	7-9

21-30

Minor in Biology (Biology Education)

	Semester Hours
Bio 101 General Biology	4
Bio 122 Zoological Survey	3
Bio 211 Microbiology	
OR	
Bio 231 Medical Microbiology	5
Bio 305 Genetics	4
Bio 306 Human Physiology and Anatomy	5
Bio 499 Problems in Biology (1-3)	

22-24

Completion of the BIOLOGY EDUCATION MINOR plus the following courses will qualify the student for certification in Biology for grades 7-12 and is Plan A for the Bachelor of Science in Education:

Math 140	Algebra and Trigonometry	5
Chem 101	General Chemistry I	5
Phys 151	Elementary College Physics I	4
Bio 312	Environmental Biology	
OR		
Bio 402	General Ecology	4
Biology Electives		4

22

Suggested Orders of Study

BACHELOR OF SCIENCE

Major Code 0401
Biology Major

FRESHMAN YEAR

1st Semester		Hours
Course		
Bio 101	General Biology	4
Gen Ed	[Eng 101 Composition I]	3
Gen Ed	[HPER 101 P.E. Activity]	2
Gen Ed	[History 110 or 120 U.S. History]	3
Gen Ed	[Humanities and Fine Arts]	3
Psy 120	Freshman Orientation	1
		16

16

2nd Semester

Bio 122	Zoological Survey (Bio 101)	3
Math 140	Algebra and Trigonometry	5
Gen Ed	[Eng 102 Composition II]	3
Gen Ed	[Comm 100 Oral Communications]	3
Gen Ed	[PSc 120 Government: U.S., State, Local]	3

17

SOPHOMORE YEAR

1st Semester		
Bio 112	Botanical Survey (Bio 101)	3
Bio 211	Microbiology (Bio 101)	
OR		
Bio 231	Medical Microbiology (Bio 101)	5
Chem 101	General Chemistry I (Math 140)	5
Comp 115	Computing I or approved computer course	3

16

2nd Semester

Bio 305	Genetics (Bio 101, 211 or 231)	4
Bio 210	General Physiology (Bio 122, Chem 102)	4
Chem 102	General Chemistry II (Chem 101)	5
Gen Ed	[Econ 180 American Economic System]	3

16

JUNIOR YEAR

1st Semester	
Bio 306	Human Physiology and Anatomy
OR	
Bio 331	Comparative Vertebrate Anatomy
Chem 301	Organic Chemistry I (Chem 102)
Phys 151	Elementary College Physics I (Math 140)

15

2nd Semester

Bio 433	Histology (4 hrs)	
OR		
Bio 462	Embryology (5 hrs)	4-5
Bio 322	Plant Taxonomy	4
Gen Ed	[Humanities and Fine Arts]	6

14-15

SENIOR YEAR

1st Semester	
Bio 362	Virology
Bio 371	Plant Physiology
Bio 490	Seminar
Bio Electives	
Gen Ed	[Behavioral Science]
Gen Ed	[HPER 160 Personal Health]

15

2nd Semester		
Bio 402	Ecology	4
Bio 456	Immunology	3
Bio 381	Ornithology	3
Bio Electives		6
		16

[] Department Recommendation
() Prerequisite

For additional information contact:
Dr. Vonnice R. Prentice
Office: 216 Reynolds Hall
Phone: Ext. 239

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0840
Biology Major (Plan B)
Single Teaching Field

FRESHMAN YEAR

1st Semester		
Course		Hours
Bio 101	General Biology	4
Gen Ed	[Eng 101 Composition I]	3
Psy 110	Psychology of Human Development	5
Psy 120	Freshman Orientation	1
Gen Ed	[Hist 110 or 120 U.S. History]	3
		16

2nd Semester		
Bio 122	Zoology Survey (Bio 101)	3
Gen Ed	[Eng 102 Composition II]	3
Math 140	Algebra & Trigonometry	5
Gen Ed	[Comm 100 Oral Communications]	3
Comp 115	or approved computer course	3
		17

SOPHOMORE YEAR

1st Semester		
Bio 112	Botanical Survey (Bio 101)	3
Chem 101	General Chemistry I (Math 130 or Math 140)	5
Phys 151	Elementary College Physics I	
OR		
Geol 110	Introduction to Geology	5
Gen Ed	[PSc 120 Government: U.S., State, Local]	3
Gen Ed	[HPER 101 P.E. Activity]	2
		18

2nd Semester		
Bio 211	Microbiology (Bio 101)	5
Bio 305	Genetics (Bio 101, 211 or 231)	4
Chem 102	General Chemistry II (Chem 101)	5
Gen Ed	[Humanities and Fine Arts]	3
		17

JUNIOR YEAR

1st Semester		
Chem 300	Introduction to Modern Organic Chemistry	
OR		
Chem 301	Organic Chemistry I (Chem 102)	5
Educ 300	Clinical Experience	2
Educ 330	Structures of Teaching/Secondary	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2
Gen Ed	[Humanities and Fine Arts]	3
Gen Ed	[HPER 160 Personal Health]	2
		18

2nd Semester		
Bio 402	General Ecology (Bio 101, 112, 322 or consent)*	4
Psy 302	Exceptional Child (Psy 110)	2
Psy 310	Educational Psychology	2
Bio Electives		5
Gen Ed	[Humanities and Fine Arts]	3
		16

SENIOR YEAR

1st Semester		
Bio 306	Human Physiology & Anatomy (Bio 122)	5
Gen Ed	[Econ 180 American Economic System]	3
Bio Electives		5
Elective		3
		16

2nd Semester		
Professional Semester to include Educ 422		
		18
*Offered Spring Semester Only		
() Prerequisite		
[] Department Recommendation—not necessarily in this order		

For additional information contact:
Dr. Vonnice R. Prentice
Office: 216 Reynolds Hall
Phone: Ext. 239

Suggested Orders of Study

Major Code 7005

Pre-Medicine

Major Code 7002

Pre-Dentistry

Major Code 7005

Pre-Veterinary

(This program will also qualify the student for the Bachelor of Science in Biology)

FRESHMAN YEAR

1st Semester		
Course		Hours
Bio 101	General Biology	4
Chem 101	General Chemistry I	5
Math 140	Algebra & Trigonometry	5
OR		
Math 150	Calculus w/Analytic Geometry	5
Gen Ed	[HPER 101 P.E. Activity]	2
Psy 120	Freshman Orientation	1
		17

2nd Semester		
Bio 122	Zoological Survey (Bio 101)	3
Chem 102	General Chemistry II (Chem 101)	5
Comp 115	Computing I	3
Gen Ed	[Eng 101 Composition]	3
Gen Ed	[Comm 100 Oral Communications]	3
		17

SOPHOMORE YEAR

1st Semester		
Bio 112	Botanical Survey (Bio 101)	3
Bio 211	Microbiology (Bio 101)	5
Phys 151	Elementary Physics I (Math 140)	5
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Eng 102 Composition II]	3
		18

2nd Semester		
Bio 305	Genetics (Bio 211 or 231)	4
Phys 152	Elementary Physics II (Phys 151)	3
Gen Ed	[Psy 110 Psychology of Human Development]	5
Bio 210	General Physiology (Bio 122 & Chem 102)	4
		16

JUNIOR YEAR

1st Semester		
Bio 331	Comparative Anatomy	5
Chem 301	Organic Chemistry I (Chem 102)	5
Gen Ed	[Econ 180 American Economic System]	3
Gen Ed	[Humanities and Fine Arts]	3
		16

2nd Semester		
Bio 318	Cell Biology	4
OR		
Bio 456	Immunology	3
Chem 302	Organic Chemistry II (Chem 301)	5
Bio 462	Embryology	5
Gen Ed	[Humanities and Fine Arts]	3
		16-17

SENIOR YEAR

1st Semester		
Bio 316	Economic Botany	3
Bio 431	Animal Physiology	5
OR		
Bio 433	Histology	4
Bio 490	Seminar	1
Gen Ed	[Humanities and Fine Arts]	3
Chem 201	Analytic Chemistry I	5
		16-17

2nd Semester		
Bio 402	General Ecology	4
Bio 306	Human Physiology & Anatomy	5
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[PSc 120 Government: U.S., State, Local]	3
Math 310	Elementary Statistics (Math 130)	3
		18

*Pre-Vet students must also enroll in Animal Science and Animal Nutrition prior to acceptance at the University of Missouri Veterinary School.

Students should also check with the pre-med advisor about any specific professional school. The individual school may have some other specific requirement.

[] Department Recommendation
() Prerequisite

For additional information contact:
Dr. Vonnice R. Prentice (Pre-Med)
Office: 216 Reynolds Hall
Phone: Ext. 239

ARTS & SCIENCES

Mr. David Tillman (Pre-Dental)
Office: 310 Reynolds Hall
Phone: Ext. 278

Dr. E. Sam Gibson (Pre-Vet)
Office: 308D Reynolds Hall
Phone: Ext. 278

Major Code 7006

Pre-Optometry

(This program will also qualify the student for the Bachelor of Science in Biology.)

FRESHMAN YEAR

1st Semester		Hours
Course		
Bio 101	General Biology*	4
Chem 101	General Chemistry I (Math 140)*	5
Math 140	Algebra & Trigonometry	5
Phy 120	Freshman Orientation	1
Gen Ed	[HPER 101 P.E. Activity]	2
		17

2nd Semester		Hours
Bio 122	Zoological Survey	3
Chem 102	General Chemistry II (Chem 101)*	5
Gen Ed	[Eng 101 Composition I]*	3
CIS 115	Computing I	3
Gen Ed	[Comm 100 Oral Communications]*	3
		17

SOPHOMORE YEAR

1st Semester		Hours
Bio 112	Botanical Survey (Bio 101)*	3
Bio 305	Genetics (Bio 101, 211 or 231)	4
Gen Ed	[Eng 102 Composition II]*	3
Math 150	Calculus with Analytic Geometry (Math 140)*	5
Gen Ed	[HPER 160 Personal Health]	2
		17

2nd Semester		Hours
Bio 211	Microbiology (Bio 101)	5
Bio 210	General Physiology (Bio 122 and Chem 102)*	4
Gen Ed	[Psy 100 General Psychology]*	3
Gen Ed	[Econ 180 American Economic System]	3
Gen Ed	[Hist 110 or 120 U.S. History]*	3
		18

JUNIOR YEAR

1st Semester		Hours
Phys 151	Elementary College Physics I*	5
Chem 301	Organic Chemistry I (Chem 102)*	5
Bio 433	Histology	4
Phy 300	Child Development	
OR		
Phy 301	Adolescent Psychology	3
		17

2nd Semester		Hours
Phys 152	Elementary College Physics II (Phys 151)*	3
Chem 302	Organic Chemistry II (Chem 301)	5
Bio 318	Cell Biology (4 hrs)	
OR		
Bio 456	Immunology (3 hrs)	3-4
Math 310	Elementary Statistics*	3
Gen Ed	[Humanities and Fine Arts]	3
		17-18

SENIOR YEAR

1st Semester		Hours
Bio 316	Economic Botany	3
Bio 431	Animal Physiology	5
Bio 490	Seminar	1
Electives		4-5
Gen Ed	[PSc 120 Government: U.S., State, Local]	3
		16-17

2nd Semester		Hours
Bio 402	General Ecology	
OR		
Bio 312	Environmental Biology (Fall only)	4
Bio 306	Human Physiology and Anatomy	5
Electives		3
Gen Ed	[Humanities and Fine Arts]	6
		18

*Indicates courses which satisfy minimum requirements for admission into Optometry School. Application may be made with 90 semester hours. Strong preference is given to applicants who hold the Bachelor's Degree.

[] Department Recommendation
() Prerequisite

For additional information contact:
Dr. E. Sam Gibson
Office: 308D Reynolds Hall
Phone: Ext. 278

Pre-Physical Therapy

FOR TRANSFER TO UNIVERSITY OF MISSOURI-COLUMBIA

FRESHMAN YEAR

1st Semester		Hours
Course		
Gen Ed	[Eng 101 Composition]	3
Math 140	Algebra & Trigonometry	5
Bio 121	General Zoology	4
Gen Ed	[Psy 100 General Psychology]	3
Psy 120	Freshman Orientation	1
		16

2nd Semester		Hours
Gen Ed	[Eng 102 Composition]	3
Psy 311	Applied Statistics-Behavioral & Natural Science	3
Gen Ed	[PSc 120 Government: U.S. State, & Local]	3
Bio 221	Anatomy & Physiology (Bio 121)	5
Gen Ed	[Comm 100 Oral Communications]	3
		17

SOPHOMORE YEAR

1st Semester		Hours
Phys 151	Elementary College Physics	5
Psy 221	Psychology of Personal Adjustment	3
Soc Sci	Elective	3
Gen Ed	[Humanities and Fine Arts]	3
Psy 310	Ed Psychology	2
		16

2nd Semester		Hours
Chem 101	General Chemistry I (Math 140)	5
Bio 210	General Physiology (Bio 121)	4
Gen Ed	[Humanities and Fine Arts]	3
Gen Ed	[HPER 101 P. E. Activities]	2
		14

—Apply for admission to Physical Therapy School University of Missouri-Columbia residence. Residents of other states should consult with Mr. Tillman, Department of Biology, as individual Schools of Physical Therapy may require different prerequisites. Completion of the above course does not automatically admit an applicant into the physical therapy program at the University of Missouri.

() Prerequisites
[] Department Recommendations

An Associate of Arts degree may be awarded if one of the Humanities electives is a literature course.

For additional information contact:
Mr. David Tillman
Office: 310 Reynolds Hall
Phone: Ext. 278

CHEMISTRY

FACULTY:

Baiaomonte, Head; Albright, Kash, Malzahn, Mosher, Whittle

Chemistry graduates will find an impressive array of options and exciting opportunities in fields such as basic research, environmental protection, instrumentation, new product and process development, technical marketing, market research, forensic chemistry, teaching at all levels, and information science. Moreover, an education in Chemistry is valuable in health sciences such as medicine, pharmacology, clinical chemistry, and industrial hygiene. The first step into a future in chemistry is a formal education. Since chemistry is such a broad field and holds diverse career opportunities, students should plan their education with a specific goal in mind.

General Education requirements for Physical Science can be met with any 5 semester hour chemistry course.

BACHELOR OF ARTS WITH A MAJOR IN CHEMISTRY

	Semester Hours
General Education Requirements (see pages 36, 38) 46*	38
Foreign Language (two courses in one language)	10

Chemistry Requirements 28

Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 300 Intro to Modern Organic Chemistry (5 hours) and Upper Division Chemistry Electives (8 hrs.) excluding Chem 301.**	5
OR	
Chem 301 Organic Chemistry I (5 hrs.), Chem 302 Organic Chemistry II (5 hrs.), Upper Division Chemistry Electives (3 hrs.) excluding Chem 300**	13

Supporting Requirements 16

Phys 151 Elementary College Physics I**	5
Phys 152 Elementary College Physics II**	3
Math 140 Algebra and Trigonometry**	5
Comp 115 Computing I	5
OR	
Comp 200 Advanced Personal Computing with Graphics	3

Electives 32 124***

*Required Physics and Mathematics courses satisfy Major requirements and 8 hours of General Education.

**See Prerequisites.

***Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE WITH A MAJOR IN CHEMISTRY**General Education Requirement (see pages 36, 38) 46* 38****Chemistry Requirements 33**

Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5

Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 401 Physical Chemistry I**	4
Chem 402 Physical Chemistry II**	4

Supporting Requirements 23

Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Comp 115 Computing I	5
OR	
Comp 200 Advanced Personal Computing with Graphics	3

Electives* 30 124******

*Required Physics and Mathematics courses satisfy Major requirements and 8 hours of General Education.

**See Prerequisites.

***Suggested Electives (Chem 351, Chem 421, Chem 422, Chem 472, Math 260, Math 322, Phys 372, Phys 341)

****Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN CHEMISTRY**PLAN A****ONE OF TWO TEACHING FIELDS**

Semester Hours

General Education Requirements (see pages 36, 38) 46* 31**Chemistry Requirements 27**

Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 499 Problems Laboratory	2

Supporting Requirements 17

Phys 151 Elementary College Physics I**	5
Math 140 Algebra and Trigonometry**	5

Bio 110 Man and Environment	4
Comp 115 Computing I	
OR	
Comp 200 Advanced Personal Computing with Graphics	3

Education Certification Requirements (see pages 117, 118) 35**Second Teaching Field (some fields exceed 30 hours) 30 140*****

*Required Physics, Mathematics, Psychology, and Biology courses satisfy Major requirements and 15 hours of General Education.

**See Prerequisites.

***varies with 2nd field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN CHEMISTRY PLAN B**SINGLE TEACHING FIELD**

Semester Hours

General Education Requirements (see pages 36, 38) 46* 31**Chemistry Requirements 31**

Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 401 Physical Chemistry I**	4
Chem 499 Problems Laboratory	2

Supporting Requirements 27

Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Bio 110 Man and Environment	4
Comp 115 Computing I	
OR	
Comp 200 Advanced Personal Computing with Graphics	3

Note: A Bachelor of Arts Degree in chemistry is for students who need some knowledge of chemistry as a basis for work in other fields but who do not expect to become professional chemists.

Education Certification Requirements (see pages 117, 118)

35
124

*Required Physics, Mathematics, Psychology, and Biology courses satisfy Major requirements and 15 hours of General Education.

**See Prerequisites.

MINOR IN CHEMISTRY

	Semester Hours
Chem 101 General Chemistry I*	5
Chem 102 General Chemistry II*	5
Chem Electives** (Excluding Chem 100, Chem 298, Chem 498 and Chem 499)	8
TOTAL	18

*See Prerequisites

**Chem 300 and Chem 301 or Chem 302 cannot be used together to satisfy the 8 hour requirement.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1905
Chemistry Major

FRESHMAN YEAR

1st Semester	Course	Hours
Chem 101	General Chemistry I (Algebra & Trigonometry)	5
Math 140	Algebra & Trigonometry or Math 150 Calculus I	5
Gen Ed	[Eng 101 Composition]	3
Psy 120	Freshman Orientation	1
		14

2nd Semester

Chem 102	General Chemistry II (Chem 101)	5
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[HPER 101 Physical Activities]	2
Electives	(Second area of concentration)	3
Comp 115	Computing I	3
		16

SOPHOMORE YEAR

1st Semester		
Chem 301	Organic Chemistry I*	
OR		
Chem 201	Analytical Chemistry I	5
Phys 151	Elementary College Physics I	5
Gen Ed	[HPER 160 Personal Health]	2
Electives	(Second area of concentration)	5
		17

2nd Semester

Chem 302	Organic Chemistry II*	
OR		
Chem 300	Intro to Modern Organic Chemistry	5
Phys 152	Elementary College Physics II (Phys 151)	5

Gen Ed	[PSc 120 Government: U.S., State, & Local]	3
Electives	(Second area of concentration)	5
		18

JUNIOR YEAR

1st Semester		
Chem 201	Analytical Chemistry I (5 hrs)	
OR		
Chem	[Upper Division Elective]	4-5
Foreign Language		5
Gen Ed	[Communications]	3
Gen Ed	[Literature]	3
		15-16

2nd Semester

Chem Elective-Upper Division		4
Foreign Language		5
Gen Ed	[Behavioral & Social Science]	3
Gen Ed	[Bio 101 General Biology]	4
		16

SENIOR YEAR

1st Semester		
Gen Ed	[Humanities & Fine Arts]	3
Gen Ed	[Econ 180 American Economic System]	3
Electives		10
		16

2nd Semester

Gen Ed	[Humanities & Fine Arts]	3
Electives		12
		15

*Student may elect either Chem 300 plus 8 hours of upper division Chemistry (excluding Chem 301) or Chem 301 and Chem 302. Plus 3 hours of upper division Chemistry electives.

() Prerequisites
[] Department Recommendation

For additional information contact:

Dr. Vernon Baiamonte
Office: 218 Reynolds Hall
Phone: Ext. 241

BACHELOR OF SCIENCE

Major Code 1905
Chemistry Major

FRESHMAN YEAR

1st Semester	Course	Hours
Chem 101	General Chemistry I (Algebra & Trigonometry)	5
Math 150	Calculus I	5
Gen Ed	[Eng 101 Composition]	3
Comp 115	Computing I	3
Psy 120	Freshman Orientation	1
		17

2nd Semester

Chem 102	General Chemistry II (Chem 101)	5
Math 250	Calculus II (Math 150)	5
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[HPER 101 Physical Activities]	2
		15

SOPHOMORE YEAR

1st Semester		
Chem 301	Organic Chemistry I (Chem 102)	5
Phys 250	General Physics (Math 150)	5
Elective	[Math 260 Calculus III] (Math 250)	5
Gen Ed	[HPER 160 Personal Health]	2
		17

2nd Semester

Chem 302	Organic Chemistry (Chem 301)	5
Phys 260	General Physics II (Phys 250)	5
Elective	[Math 322 Differential Equations] (Math 260)	3
Gen Ed	[PSc 120 Government: U.S., State, & Local]	3
		16

JUNIOR YEAR

1st Semester		
Chem 401	Physical Chemistry I	
OR		
Elective	[Chem 422 Advanced Inorganic Chemistry]	4
Chem 201	Analytical Chemistry I	5
Gen Ed	[Communications]	3
Gen Ed	[Behavioral & Social Sciences]	3
Gen Ed	[Hist 110 or 120 U.S. History]	3
		18

2nd Semester

Chem 402	Physical Chemistry II	
OR		
Elective	[Chem 472 Organic Qualitative Analysis]	4
Elective	[Chem 421 Analytical Chemistry II]	5
Gen Ed	[Humanities & Fine Arts]	3
Gen Ed	[Bio 101 General Biology]	4
		16

SENIOR YEAR

1st Semester		
Chem 401	Physical Chemistry I	
OR		
Elective	[Chem 422 Advanced Inorganic Chemistry]	4
Elective	[Chem 499 Independent Study]	1
Gen Ed	[Humanities & Literature]	3
Gen Ed	[Econ 180 American Economic System]	3
Electives		5
		16

2nd Semester

Chem 402	Physical Chemistry II	
OR		
Elective	[Chem 472 Organic Qualitative Analysis]	4
Elective	[Chem 499 Independent Study]	2
Elective	[Phys 372 Electronic Circuits]	4
Electives (Upper Division)		3
Gen Ed	[Literature]	3
		16

() Prerequisites

[] Department Recommendations

For additional information contact:

Dr. Vernon Baiamonte
Office 218 Reynolds Hall
Phone: Ext. 241

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0841

Chemistry Major (Plan B)

Single Teaching Field

FRESHMAN YEAR

1st Semester

Course	Hours
Chem 101 General Chemistry I (Algebra & Trigonometry)	5
Math 150 Calculus I	5
Gen Ed [HPER 101 P.E. Activity]	2
Gen Ed [Eng 101 Composition]	3
Psy 120 Freshman Orientation	1
	16

2nd Semester

Chem 102 General Chemistry II (Chem 101)	5
Math 250 Calculus II (Math 150)	5
Gen Ed [Eng 102 Composition]	3
Comp 115 Computing I	3
	16

SOPHOMORE YEAR

1st Semester

Chem 301 Organic Chemistry I (Chem 102)	5
Phys 250 General Physics I (Math 150)	5
Elective [Math 260 Calculus III] (Math 250)	5
Gen Ed [HPER 160 Personal Health]	2
	17

2nd Semester

Chem 302 Organic Chemistry II (Chem 301)	5
Phys 260 General Physics II (Phys 250)	5
Psy 110 Psychology of Human Growth & Development	5
Gen Ed [PSc 120 Government: U.S., State, Local]	3
	18

JUNIOR YEAR

1st Semester

Chem 401 Physical Chemistry I	
OR	
Chem 422 Advanced Inorganic Chemistry	4
Chem 201 Analytical Chemistry	5
Gen Ed [Communications]	3
Psy 310 Educational Psychology (Psy 110)	2
Educ 302 The Exceptional Child	2
	16

2nd Semester

Chem 499 Problems Laboratory	2
Gen Ed [Humanities & Fine Arts]	3
Gen Ed [Literature]	3
Educ 300 Clinical Experience	2
Educ 330 Structure of Teaching/Secondary	2
Educ 331 Microteaching	2
Educ 370 Introduction to Instructional Media	2
	16

SENIOR YEAR

1st Semester

Chem 401 Physical Chemistry I	
OR	
Elective [Chem 422 Advanced Inorganic Chemistry]	4
Gen Ed [Humanities & Fine Arts]	3
Gen Ed [Econ 180 American Economic System]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
Bio 110 Man and Environment	4
	17

2nd Semester

Educ 333 Teaching Science in Secondary Schools	2
Educ 402 Foundations of Education	2
Educ 432 Critical Issues	2
Educ 422 Reading in the Secondary School	2
Educ 462 Student Teaching Secondary	8
Required Elective: Educ 412, 420, 423, or Psy 412	2
	18

() Prerequisites

[] Department Recommendations

For additional information contact:

Dr. Vernon Baillamonte

Office: 218 Reynolds Hall

Phone: Ext. 241

COMMUNICATIONS**FACULTY:**

Massa, Head; Bodon, Carney, Clark, Kluthe, Finton, Merriam, Peterson, Short, Stebbins

Two options, or two separate fields of study, exist for the major in communications for the Bachelor of Arts degree.

Option One, Speech Communication, provides students the opportunity to develop a field of study in the theory, history, and skills of oral communication. It is an especially valuable major for many pre-professional schools, such as law. Option Two, Mass Communications, allows students to attain a high level of proficiency in the skills required for media in modern society. Print journalism, the electronic media, and public relations are three specific areas of preparation. Laboratories in both the print and electronic media, outfitted with state-of-the-art equipment, permit students hands-on experience from the beginning of their college careers. The department publishes a weekly college newspaper and the college yearbook, and operates MSTV, Missouri Southern Television, a cable television service, and is developing elaborate radio facilities. Complementing both the speech communication and the mass communication major is a strong debate program which has achieved national recognition. A Bachelor of Science in Education degree is offered in cooperation with the Department of Theatre for students who wish to teach speech/drama at the high school level.

General Education requirements for one course in Area 1, section B, are fulfilled by any of the following: Comm 100, Oral

Communication; Comm 103, Business and Professional Speech, recommended for business and management majors; or Comm 131, Voice and Articulation, recommended for education majors.

BACHELOR OF ARTS WITH A MAJOR IN COMMUNICATIONS**OPTION I: SPEECH COMMUNICATION**

Semester Hours

General Education Requirements

(see pages 36, 38) 46*

40

Computer Literacy Requirement—**determined by the Communications****Department 2-3****Foreign Language (two courses in one language)**

10

Communications Requirements

41

Comm 100 Oral

Communication 3

Comm 101 Introduction to

Human

Communication 3

Comm 120 Mass

Communications

Theory 3

Comm 215 Interpersonal

Communication** 3

Comm 131 Voice and

Articulation 3

Comm 300 Organizational

Communication 3

Comm 411 Political and Social

Communication 3

Communication Electives (at

least 6 upper division

hours) 20

Supporting Requirements

9

French, Spanish, or German—

One course beyond B.A.

requirement 3

Allied discipline (upper

division) 6***

Electives

22-23

124****

*Required courses in Communication and Foreign Language satisfy Major requirements and 6 hours of General Education.

**See Prerequisites

***An "allied discipline" is a field of study, outside the Department of Communications, which is aligned to the career goal of the individual student.

****Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF ARTS WITH A MAJOR IN COMMUNICATIONS OPTION II: MASS COMMUNICATIONS

	Semester Hours
General Education Requirements (see pages 36, 38) 46*	40
Computer Literacy Requirement— determined by the Communications Department	2-3
Foreign Language (two courses in one language)	10
Communications Requirements	47
Comm 100 Oral Communication	3
Comm 101 Introduction to Human Communication	3
Comm 120 Mass Communications Theory	3
Comm 215 Interpersonal Communication**	3
Comm 111 Newswriting	3
Comm 220 Practicum in Communications**	1
Comm 310 Communication Law	3
Comm 325 Broadcast News Reporting**	3
Comm 330 Advanced Practicum in Communication**	2
Communication Electives (at least 4 upper division hours)	23
French, Spanish, or German—One course beyond B.A. requirement	3
Electives	21-22
	124***

*Required courses in Communication and Foreign Language satisfy both courses in the Major and 6 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours. Courses numbered 300 and above in history, political science, sociology, business, and psychology are recommended.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPEECH COMMUNICATION AND THEATRE PLAN B

SINGLE TEACHING FIELD

Semester Hours

General Education Requirements (see pages 36, 38) 46*	43
Communications Requirements	12
Comm 101 Introduction to Human Communication	3
Comm 215 Interpersonal Communication**	3
Comm 304 Small Group Communication	3
Comm 315 Argumentation and Debate	3
Theatre Requirements	17
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 331 History of the Theatre	3
Th 332 History of the Theatre	3
Th 351 Directing I	3
Th 121, 122, 221, or 222—Theatre Laboratory	2
Electives in Communications and/or Theatre	15**
Education Certification Requirements (see pages 117, 118)	37****
	124

*Required courses in Theatre satisfy both Major requirements and 3 hours of General Education.

**See Prerequisites

***Must be approved in advance by the student's advisor who must be selected from either the area of speech communication or theatre.

****Computer literacy requirements will normally be met through courses in the Department of Education. Students may wish to substitute an appropriate course with prior approval of their advisor.

MINOR IN COMMUNICATIONS

Semester Hours

Comm Electives (lower or upper division)	15
Comm Electives (upper division)	6
	21*

*Must be selected in close advisement with a faculty member in the Department of Communications.

Suggested Orders of Study

BACHELOR OF ARTS

Major code 0600
Communications Major

MASS COMMUNICATIONS OPTION

BROADCAST EMPHASIS

FRESHMAN YEAR

1st Semester	Course	Hours
Comm 101	Intro to Human Communication	3
Comm 100	Oral Communication	3
Comm 111	Newswriting	3
Gen Ed	[HPER 101 P.E. Activity]	2
Psy 120	Freshman Orientation	1
Gen Ed	[Eng 101 Composition]	3
		15

2nd Semester

Comm 120	Mass Communications Theory	3
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[Math 110 Intro to College Math]	3
Gen Ed	[Bio 101 General Biology]	4
Comm 130	Intro to Broadcasting	3
		16

SOPHOMORE YEAR

1st Semester	Course	Hours
Comm 215	Interpersonal Communication	3
Comm 200	Radio Workshop	4
Foreign Language		5
Gen Ed	[PSc 120 Gov't U.S., State, and Local]	3
Gen Ed	[HPER 160 Personal Health]	2
		17

2nd Semester

Comm 201	Television Workshop	4
Foreign Language		5
Gen Ed	[Econ 180 American Economic System]	3
Gen Ed	[Humanities and Fine Arts]	3
Comm 301	Broadcast, Cable Management	3
		18

JUNIOR YEAR

1st Semester	Course	Hours
Comm 325	Broadcast News Reporting	3
Foreign Language		3
Gen Ed	[Phys 100 Fund of Physical Science]	5
Gen Ed	[Literature (upper division)]	3
Comm 233	Copyediting	3
		17

2nd Semester

Comm 220	Practicum in Communications	1
Comm 310	Communication Law	3
**Supporting Electives [upper division]		6
Gen Ed	[Phys 100 Gen. Psychology or Sociology 110 Intro to Sociology]	3
Gen Ed	[Hist 110 or 120 U.S. History]	3
		16

SENIOR YEAR

1st Semester	Course	Hours
**Supporting Electives [upper division]		9
Electives or Minor [upper division]		5
Computer literacy requirement		2-3
		16-17

2nd Semester	
Comm Electives [upper division]	5
Comm 330 Advanced Practicum in Communications	2
Electives or Minor	5
	12
**Supporting electives selected from upper division History, Business, Political Science, Sociology, or Psychology.	

[] Department Recommendation

For additional information contact:
Mr. Richard Massa
Office: 105 Hearnes Hall
Phone: Ext. 372

BACHELOR OF ARTS

Major Code 0600
Communications Major

MASS COMMUNICATIONS OPTION

NEWSPAPER EMPHASIS

FRESHMAN YEAR

1st Semester		
Course	Hours	
Comm 101 Intro to Human Communication	3	
Comm 100 Oral Communications	3	
Gen Ed [Eng 101 Composition]	3	
Comm 111 Newswriting	3	
Gen Ed [HPER 101 P.E. Activity]	2	
Psy 120 Freshman Orientation	1	
	15	

2nd Semester	
Comm 120 Mass Communications Theory	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [Bio 101 General Biology]	4
Comm 233 Copyediting	3
Comm 220 Practicum in Communications	1
	17

SOPHOMORE YEAR

1st Semester	
Comm 215 Interpersonal Communication	3
Comm 231 Feature Writing	3
Foreign Language	5
Gen Ed [PSc 120 Gov't U.S., State, and Local]	3
Gen Ed [HPER 160 Personal Health]	2
	16

2nd Semester	
Comm 130 Introduction to Broadcasting	3
Foreign Language	5
Gen Ed [Econ 180 American Economic System]	3
Gen Ed [Humanities and Fine Arts]	3
**Supporting Elective [upper division]	3
	17

JUNIOR YEAR

1st Semester	
Comm 302 Photocommunications	3
Foreign Language	3
Gen Ed [Phys 100 Fund of Physical Science]	5

Gen Ed [Literature (upper division)]	3
Comm 200 Radio Workshop	4
	18
2nd Semester	
Comm 201 Television Workshop	4
Comm 310 Communication Law	3
Gen Ed [Psy 100 General Psychology or Sociology 110 Intro to Sociology]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
**Supporting Elective [upper division]	3
	16

SENIOR YEAR

1st Semester	
**Supporting Electives [upper division]	9
Electives or Minor [upper division]	5
Computer literacy requirement	2-3
	16-17

2nd Semester	
Comm 330 Advanced Practicum in Communications	2
Comm Electives [upper division]	6
Electives or minor [upper division]	4
	12

**Supporting electives selected from upper division History, Business, Political Science, Sociology, or Psychology (3 hours).

[] Department Recommendation

For additional information contact:
Mr. Richard Massa
Office: 105 Hearnes Hall
Phone: Ext. 372

BACHELOR OF ARTS

Major Code 0600
Communication Major

SPEECH COMMUNICATION OPTION

FRESHMAN YEAR

1st Semester		
Course	Hours	
Comm 100 Oral Communication	3	
Comm 101 Intro to Human Communication	3	
Comm 121 Forensics Workshop	1	
Gen Ed [Eng 101 Composition]	3	
Gen Ed [Econ 180 American Economic System]	3	
Psy 120 Freshman Orientation	1	
	14	

2nd Semester	
Comm 120 Mass Communications Theory	3
Comm 131 Voice & Articulation	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [HPER 101 P.E. Activity]	2
Gen Ed [PSc 120 Gov't U.S. State, and Local]	3
	14

SOPHOMORE YEAR

1st Semester	
Comm 215 Interpersonal Communication	3
Comm 315 Argumentation & Debate	3
Foreign Language	5
Gen Ed [Phys 100 Fund of Physical Science]	5
	16
2nd Semester	
Comm Elective	3
Foreign Language	5
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Psy 100 General Psychology or Sociology 110 Intro to Sociology]	3
Gen Ed [HPER 160 Personal Health]	2
	17

JUNIOR YEAR

1st Semester	
Comm 304 Small Group Communication	3
Comm 300 Organizational Comm	3
Comm 321 Forensics Workshop	1
Upper Division [Allied discipline]	6
Foreign Language	3
	16

2nd Semester	
Comm Electives [upper division]	6
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [Literature or Fine Art]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
	15

SENIOR YEAR

1st Semester	
Gen Ed [Literature (upper division)]	3
Comm Electives [upper division]	6
Electives [upper division]	6
Computer literacy requirement	2-3
	17-18

2nd Semester	
Comm 411 Political and Social Communication	3
Electives [upper division]	4
Electives	8
	15

[] Department Recommendation

For additional information contact:
Mr. Richard Massa
Office: 105 Hearnes Hall
Phone: Ext. 372

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0844
Speech-Theatre Major (Plan B) Single Teaching Field

FRESHMAN YEAR

1st Semester		
Course	Hours	
Comm 101 Intro to Human Communication	3	
Comm 100 Oral Communication	3	
Gen Ed [Eng 101 Composition]	3	
Gen Ed [Econ 180 American Economic System]	3	
Gen Ed [Hist 110 or 120 U.S. History]	3	
Psy 120 Freshman Orientation	1	
	16	

2nd Semester		
Comm 131	Voice & Articulation	3
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[Math 110 Intro to College Math]	3
Gen Ed	[PSc 120 Gov't U.S., State, and Local]	3
Comm 103	Business and Professional Speech	3
		15

SOPHOMORE YEAR

1st Semester		
Comm 315	Argumentation and Debate	3
Psy 110	Psychology of Human Development	5
Gen Ed	[Phys 100 Fund of Physical Science]	5
Comm 215	Interpersonal Communication	3
		16

2nd Semester		
Educ 302	Exceptional Child	2
Psy 310	Educational Psych	2
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[HPER 101 P.E. Activity]	2
Educ 422	Teaching Reading in Sec/Elem Schools	2
Educ 401	Computer Literacy	2
Comm Electives		3
		17

JUNIOR YEAR

1st Semester		
Educ 300	Clinical Experience	2
Comm 304	Small Group Communication	3
Comm 300	Organizational Communication	3
Th 331	History of Theatre	3
Educ 330	Structure of Teaching	2
Educ 331	Microteaching	2
Educ 370	Media	2
		17

2nd Semester		
Th 212	Oral Interpretation	3
Th 332	History of Theatre	3
Gen Ed	[HPER 160 Personal Health]	2
Theatre Laboratory		2
Electives		2
Th 142	Theatre Technology	3
		15

SENIOR YEAR

1st Semester		
Comm 411	Political and Social Communication	3
Comm 498	Seminars/Elective	3
Th 241	Acting I	3
Th 351	Directing I	3
Electives		3
		15

2nd Semester		
Educ 342	Teaching Speech or Theatre in Secondary Schools	2
Professional Semester		14
		16

[] Department Recommendation

For additional information contact:
Mr. Richard Massa
Office: 105 Hearn Hall
Phone: Ext. 372

ENGLISH

FACULTY:

Lambert, Head; Ackiss, Atkinson, Bauer, Brown, Couch, Denniston, Gale, Greenlee, Harder, Marlowe, Morgan, Preble, Saltzman, Short, Simpson, Walters

The Department of English offers basic service courses in composition and literature for all students at the college. These courses emphasize writing and analytical skills as well as an appreciation of literature with all its variety. A major in English for the Bachelor of Arts degree has proved to be an excellent major for students who plan to enter business and industry, for students who plan to pursue graduate studies in English, and for students who plan to enter professional schools such as law and medicine. Graduates of this program are in such widely diverse occupations as personnel relations, advertising, publishing, sales management, mass communications, and college teaching. Majors in English are expected to exhibit skills in writing, organization, and creativity, and they are expected to develop a perception of and appreciation for the human values that grow out of the study of literature.

A major in English for the Bachelor of Science in Education degree is designed for students who wish to prepare to teach English (Plan B) or English plus another field (Plan A) at the secondary level. With the need for excellence in secondary education so pressing, BSE majors are expected to develop an informed enthusiasm for and dedication to teaching composition and literature in order to prepare their students well for college and for life.

A minor in English is an excellent choice for students who want supplementary training in English skills, logical thinking, and literary knowledge. Students who wish to minor in English should arrange a coherent sequence of courses in consultation with the departmental minor advisor. Students should choose courses on the basis of their backgrounds, their major programs, and, above all, their interests.

The department also offers its majors and other students opportunities to use their talents and pursue their interests through such organizations as The En-

glish Club and Sigma Tau Delta Honor Society, publications like *The Winged Lion*, and in projects like the Annual Colloquium and English Field Day.

General Education requirements in literature can be met with any literature course offered by the department. (The exceptions are English 216, 301, 310, 315, 319, 325, 400.) Students taking English courses to satisfy general education requirements may find it beneficial to take a 100-200 literature course before attempting any literature course above the 200 level. English 101 is a prerequisite to all courses except English 80 or 111. English 102, 103, or 111 is a prerequisite to all 300-400 level English courses.

BACHELOR OF ARTS WITH A MAJOR IN ENGLISH

Semester Hours

General Education Requirements		
(see pages 36, 38) 46*		40
Computer Literacy Requirement—determined by English Department		2-3
Foreign Language (two courses in one language)		10
English Requirements		42
Eng 301 Modern Grammar		
OR		
Eng 400 History of the English Language	3	
Eng 215 Creative Writing		
OR		
Eng 310 Professional Writing		
OR		
Eng 315 Exposition**	3	
English Electives***	36	
Electives		29-30
		124****

*Required courses in English satisfy Major requirements and 6 hours of General Education.

**See Prerequisites

***Must be beyond freshman composition and include enough 300-400 level hours for a minimum total of 12.

****Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ENGLISH PLAN A

ONE OF TWO TEACHING FIELDS

General Education Requirements
(see pages 36, 38) 46*

Computer Literacy Requirement—
determined by the English
Department 2-3

English Requirements 30

Eng 301 Modern Grammar 3

Eng 319 Composition for
Teachers 3

Eng 330 Literature for
Adolescents 3

Eng 400 History of the English
Language 3

Eng 216 Creative Writing
OR

Eng 310 Professional Writing
OR

Eng 315 Exposition** 3

English Electives*** 15

Education Certification Requirements
(see pages 117, 118) 35

Second Teaching Field (some fields
exceed 30 hours) 30

134****

*Required courses in English and Psy-
chology satisfy Major requirements and 9
hours of General Education.

**See Prerequisites

***Must be beyond freshman composition.

****(varies with 2nd field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ENGLISH PLAN B

SINGLE TEACHING FIELD

General Education Requirements
(see pages 36, 38) 46*

Computer Literacy Requirement
—determined by the English
Department 2-3

English Requirements 42

Eng 301 Modern Grammar 3

Eng 319 Composition for
Teachers 3

Eng 330 Literature for
Adolescents 3

Eng 400 History of the English
Language 3

Eng 216 Creative Writing

OR

Eng 310 Professional Writing

OR

Eng 315 Exposition** 3

English Electives*** 27

Education Certification Requirements
(see pages 117, 118) 35

Electives 7-8
124

*Required courses in English and Psy-
chology satisfy Major requirements and 9
hours of General Education.

**See Prerequisites

***Must be beyond freshman composition.

MINOR IN ENGLISH

Semester Hours

Eng (advanced writing course) 3

Eng Literature (300-400 level) 9

Eng Electives (beyond freshman
composition) 9

Total 21*

*Should be chosen in consultation with an
advisor in the English Department.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1501

English Major

FRESHMAN YEAR

1st Semester

Course

Gen Ed [Eng 101 composition] 3

Gen Ed [History 110 or 120] 3

Gen Ed Foreign Language 5

Gen Ed [Math 110 or equivalent] 3

Gen Ed [HPER 101 Introduction to P.E.] 2

Psy 120 Freshman Orientation 1

17

2nd Semester

Gen Ed [Eng 102 Composition] 3

Gen Ed [Political Science 120] 3

Gen Ed [Foreign Language] 5

Eng Elective 3

Gen Ed [Economics] 3

17

SOPHOMORE YEAR

1st Semester

Eng Elective 3

Gen Ed [Speech] 3

Gen Ed [Biological Science] 4

Gen Ed [HPER 160] 2

Eng 310 Professional Writing 3

15

2nd Semester

Eng Elective 3

Eng Elective 3

Gen Ed [Physical Science] 5

Gen Ed [Behavioral and Social Science] 3

Eng 216 or Eng 315 3

Elective [Minor] 3

17

JUNIOR YEAR

1st Semester

Eng Elective 3

Eng 301 or Eng Elective 3

Eng Elective 3

Electives [Minor] 6

15

2nd Semester

Eng 400 or Eng Elective 3

Eng Elective 3

Gen Ed [Fine Art] 3

Electives [Minor] 6

15

SENIOR YEAR

1st Semester

Eng Electives 6

Electives [Minor] 9

15

2nd Semester

Eng Electives 6

Electives [Minor] 9

15

Students must choose one course from 216, 310, or
315. 310 is offered fall semesters only; 216 and 315
spring semesters only; English 301 is offered fall
semesters only; English 400 is offered in spring se-
mesters only. Six hours of English will satisfy six hours
of the general education requirements.

[] Department Recommendation

For additional information contact:

Dr. Joseph Lambert

Office: 314 Hearn Hall

Phone: Ext. 235

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0842

English Major (Plan B) Single Teaching Field

Note: Students following Plan A should consult an
advisor in English and the other major to work out an
individualized program.

FRESHMAN YEAR

1st Semester

Course Hours

Gen Ed [Eng 101 Composition] 3

Psy 110 Psychology of Human Development 5

Gen Ed [Hist 110 or 120] 3

Gen Ed [Math 110 or equiv] 3

Gen Ed [HPER 101 Intro to P.E.] 2

Psy 120 Orientation 1

17

2nd Semester		
Gen Ed	[Eng 102 Composition]	3
Eng	Elective	3
Gen Ed	[PSc 120]	3
Gen Ed	[Biological Science]	4
Gen Ed	[Econ]	3
		16

SOPHOMORE YEAR

1st Semester		
Eng	Elective	3
Eng	Elective	3
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Physical Science]	5
Gen Ed	[Fine Arts]	3
		16

2nd Semester		
Eng	Elective	3
Eng	Elective	3
Psy 302	Exceptional Child	2
Psy 310	Educational Psychology	3
Gen Ed	[Comm 100]	3
		14

JUNIOR YEAR

1st Semester		
Eng 301	Modern Grammar	3
Eng 310	or English Elective	3
Eng 319	Comp for Teachers	3
Educ 330	Structure of Teaching	2
Educ 331	Microteaching	2
Educ 370	Media Instruction	2
Educ 300	Clinical Experience	2
		17

2nd Semester		
Eng 400	History of English Language	3
Eng 216	or 315 or English Elective	3
Eng 330	Literature for Adolescents	3
Educ 422	Teaching Reading	2
Eng	Electives	6
		17

SENIOR YEAR

1st Semester		
Eng	Electives	9
Electives		6
		15

2nd Semester		
Professional Semester, including Methods in Major		16
		16

The Department recommends two courses in American Literature and two courses in English/World Literature. Six hours of English satisfies six hours of the general education requirements.

[] Department Recommendation

For additional information contact:
Dr. Joseph Lambert
Office: 314 Hearnes Hall
Phone: Ext. 235

FOREIGN LANGUAGES

FACULTY:

Massa, Head; Bodon, Carney, Peterson

Training in foreign languages enables a student to prepare for employment as an interpreter, teaching at the high school level, participating in bi-lingual programs, and teaching English as a second language. Also, there are career opportunities in industry both in the United States and abroad.

Missouri Southern offers a major and a minor in Spanish and sufficient courses in French and German to meet foreign language requirements for Bachelor of Arts degree candidates in various majors as well as to develop a keener awareness of the multi-cultural aspects of world society in general and the society of the United States in specific.

Combining a major in Spanish with a major in business, in political science, or in communications is especially valuable. A minor in Spanish will enrich any student's educational experience.

A candidate for the Bachelor of Arts degree in any major is required to have 6-10 semester hours of a foreign language. This requirement may be met by any one of the following combination of courses: (a) French 101-102; or (b) German 101-102; or (c) Spanish 101-102; or, if qualified, (d) Spanish 103-104.

A student who takes any one of these four sequences of courses may then take a third course in the same foreign language (normally French, German, or Spanish 201) and fulfill one of the three course requirements in Area 2, Humanities and Fine Arts, of the General Education requirements. The student must also then take *one* course in *one* of the following areas of study: Art, Theatre, Literature, Music, and Philosophy. The student is also required to take a course in literature from the Department of English. This course may be at any level for which the student is qualified, except Eng. 325. A literature course in a foreign language does *not* fulfill this General Education Requirement in literature.

BACHELOR OF ARTS WITH A MAJOR IN SPANISH

Semester Hours

General Education Requirements
(see pages 36, 38) **46**

Computer Literacy Requirement—
determined by Foreign Language
Department **2-3**

Spanish Requirements* **30-34**

Span 101 Beginning Spanish
(5 hrs.)

OR
Span 103 Accelerated
Beginning
Spanish** (3 hrs) 3-5
Span 102 Intermediate
Spanish (5 hrs.)

OR
Span 104 Accelerated
Intermediate
Spanish** (3 hrs.) 3-5
Span 201 Readings and
Conversation 3

Span 202 Introduction to
Hispanic Literature
and Culture 3
Span 319 Survey of Peninsular
Literature 5

Span 320 Spanish Syntax and
Composition 5

Span 322 Introduction to
Spanish American
Literature 3

Span 440 The Novelistic
Tradition** 3

Span 499 Independent Study 2

Supporting Requirements **6**

PSc 321 International Relations

OR
PSc 332 Comparative
Government:
Latin America 3

Comm 493 International
Communication

OR
Geog 412 Geography and
Culture of Latin
America 3

Electives **35-40**
124***

*A candidate for a degree in Spanish must also:

(1) demonstrate proficiency in the language;

(2) participate in five consecutive semesters of the tutorial program indicated for

Span 201, 202, 319, 320, and 332.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPANISH PLAN A

ONE OF TWO TEACHING FIELDS

General Education Requirements
(see pages 36, 38) 46* 40
Spanish Requirements** 32

Span 101 Beginning Spanish	5
Span 102 Intermediate Spanish	5
Span 201 Readings and Conversations	3
Span 202 Intro to Hispanic Literature & Culture	3
Span 319 Survey of Peninsular Literature	5
Span 320 Spanish Syntax and Composition	5
Span 332 Intro to Spanish American Literature	3
Span 440 The Novelistic Tradition***	3

Education Certification Requirements
(see pages 117, 118) 37

**Second Teaching Field (some
fields exceed 30 hours)** 30
124****

*Required courses in Spanish and Psychology satisfy the requirements for the Major and 6 hours of General Education.

**A candidate for a degree under Plan A must also:

- (1) demonstrate proficiency in Spanish;
- (2) participate in five consecutive semesters of the tutorial program indicated for Span 201, 202, 319, 320, and 332.

***See Prerequisites

****(varies with 2nd field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPANISH PLAN B

SINGLE TEACHING FIELD

General Education Requirements
(see pages 36, 38) 46* 37
Spanish Requirements** 34

Span 101 Beginning Spanish (5 hrs.)	
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OR

Span 103 Accelerated Beginning Spanish*** (3 hrs.)	3-5
Span 102 Intermediate Spanish (5 hrs.)	

OR

Span 104 Accelerated Intermediate Spanish*** (3 hrs.)	3-5
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Span 201 Readings and Conversations	3
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Span 202 Intro to Hispanic Literature & Culture	3
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Span 319 Survey of Peninsular Literature	5
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Span 320 Spanish Syntax and Composition	5
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Span 332 Intro to Spanish American Literature	3
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Span 440 The Novelistic Tradition***	3
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Span 499 Independent Study	2
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Supporting Requirements 6

PSc 321 International Relations OR	
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PSc 332 Comparative Government: Latin America	3
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Comm 493 International Communication	
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OR

Geog 412 Geography and Culture of Latin America	3
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Education Certification Requirements (see pages 117, 118) 37

Electives 10-14 124

*Required courses in Spanish, Psychology, and Political Science or Geography satisfy both Major requirements and 9 hours of General Education.

**A candidate for a degree under Plan B must also:

- (1) demonstrate proficiency in Spanish;
- (2) participate in five consecutive semesters of the tutorial program indicated for Span. 201, 202, 319, 320, and 332.

***See Prerequisites

MINOR IN SPANISH

A minor in Spanish consists of 24 hours of Spanish to be selected with the prior approval of an appropriate advisor.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1105
Spanish Major

FRESHMAN YEAR

1st Semester	Course	Hours
Span 101	Beginning Spanish (5 hrs.)	
OR		
Span 103	Accelerated Beginning Spanish (3 hrs.)	3-5
Gen Ed	[Eng 101 Composition]	3
Gen Ed	[Econ 180 American Economic System]	3
Gen Ed	[Hist 110 or 120 U.S. History]	3
Psy 120	Freshman Orientation	1
		13-15

2nd Semester

Span 102	Intermediate Spanish (5 hrs.)	
OR		
Span 104	Accelerated Intermediate Spanish (3 hrs.)	3-5
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[PSc 120 Gov't U.S., State, and Local]	3
Gen Ed	[Fine Art]	3
Gen Ed	[HPER 101 P.E. Activity]	2
		14-16

SOPHOMORE YEAR

1st Semester	Course	Hours
Span 201	Readings and Conversation	3
Gen Ed	[Comm 100 Oral Communication]	3
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[Psy 100 General Psychology or Sociology 110 Intro to Sociology]	3
Gen Ed	[Math 110 Intro to College Math]	3
		16

2nd Semester

Span 202	Intro to Hispanic Lit	3
Gen Ed	[Phys 100 Fund of Physical Science]	5
Gen Ed	[Literature]	3
Gen Ed	[Literature or Fine Art]	3
Gen Ed	[HPER 160 Personal Health]	2
		16

JUNIOR YEAR

1st Semester	Course	Hours
Span 332	Intro to Spanish American Literature	3
Span 319	Survey of Peninsular Literature	5
Computer literacy requirement		2-3
PSc 332	Comparative Gov't Latin America	
OR		
PSc 321	International Relations	3
Electives		3
		16-17

2nd Semester

Span 320	Spanish Syntax and Composition	5
Comm 493	International Communications	
OR		
Geog 412	Geography and Culture of Latin America	3
Electives		9
		17

SENIOR YEAR

1st Semester		
Span 499	Independent Study	2
Electives		15
		17
2nd Semester		
Course		
Span 440	The Novelistic Tradition	3
Electives		9-14
		12-17

[] Department Recommendation

For additional information contact:
Dr. Carmen Carney
Office: 04 Library
Phone: Ext. 280

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0847
Spanish Major (Plan B) Single Teaching Field

FRESHMAN YEAR

1st Semester			
Course		Hours	
Span 101	Beginning Spanish (5 hrs.)		
OR			
Span 103	Accelerated Beginning Spanish (3 hrs.)	3-5	
Gen Ed	[Eng 101 Composition]	3	
Gen Ed	[Econ 180 American Economic System]	3	
Gen Ed	[Hist 110 or 120 U.S. History]	3	
Psy 120	Freshman Orientation	1	
		13-15	

2nd Semester			
Span 102	Intermediate Spanish (5 hrs.)		
OR			
Span 104	Accelerated Intermediate Spanish (3 hrs.)	3-5	
Gen Ed	[Eng 102 Composition]	3	
Gen Ed	[PSc 120 Gov't U.S., State, and Local]	3	
Gen Ed	[Fine Arts]	3	
Gen Ed	[HPER 101 P.E. Activity]	2	
		14-16	

SOPHOMORE YEAR

1st Semester			
Span 201	Readings and Conversation	3	
Gen Ed	[Comm 100 Oral Communication]	3	
Gen Ed	[Bio 101 General Biology]	4	
Psy 110	Psychology of Human Development	5	
Gen Ed	[HPER 160 Personal Health]	2	
		17	

2nd Semester			
Span 202	Intro to Hispanic Literature	3	
Gen Ed	[Phys 100 Fund of Physical Science]	5	
Gen Ed	[Literature]	3	
Educ 302	Exceptional Child	2	
Psy 310	Educational Psychology	2	
Educ 422	Teaching Reading in Secondary Schools	2	
		17	

JUNIOR YEAR

1st Semester			
Span 332	Intro to Spanish American Literature	3	
Span 319	Survey of Peninsular Literature	5	
PSc 332	Comparative Gov't: Latin America		
OR			
PSc 321	International Relations	3	
Educ 300	Clinical Experience	2	
Educ 330	Structure of Teaching	2	
Educ 331	Microteaching	2	
		17	

2nd Semester			
Span 320	Spanish Syntax and Composition	5	
Comm 493	International Comm		
OR			
Geog 412	Geography and Culture of Latin America	3	
Educ 401	Computer Literacy	2	
Educ 370	Media	2	
Span 440	The Novelistic Tradition	3	
		15	

SENIOR YEAR

1st Semester			
Span 499	Independent Study	2	
Electives		10-14	
		12-16	
2nd Semester			
Professional Semester		16	
[]	Department Recommendation		
For additional information contact:			
Dr. Carmen Carney			
Office: 04 Library			
Phone: Ext. 280			

GEOGRAPHY

FACULTY:

Conboy, Head; Smith

Geography offers students a variety of employment possibilities. These range from positions in secondary education to opportunities in government and business planning.

A major is not offered at this time although sufficient hours to meet Social Studies teacher certification standards are available. Students may, with the supervision of a Social Sciences advisor, take a Geography Minor consisting of 18 semester hours.

MINOR IN GEOGRAPHY

Semester Hours

Geography 211 Regions and Nations 3

Choose 6 hours from: 6

Geog 311	Political Geography	3
Geog 322	Economic Geography	3
Geog 412	Geography and Culture of Latin America	3
Geog 422	Geography of the U.S. and Canada	3
Geog 498	Seminar in Geography	3

Choose 9 hours from: 9

Draf 230	Survey and Mapping	3
CJAd 210	Basic Photography	3
Comp 115	Computing I	3
Geol 300	Earth Environments	3
Geol 320	Historical Geology	3
PSc 322	International Law	3
PSc 332	Comparative Government: Latin America	3
Soc 152	Introduction to Anthropology	3
Soc 361	The Study of Populations*	3
Soc 402	The Community*	3

18

*See Prerequisites

GEOLOGY

FACULTY:

Baiaomonte, Head; Elick

Geology courses are used to supplement other major areas of study and for teacher certification for teaching general science at the 7-12 grade levels.

HISTORY

FACULTY:

Conboy, Head; Holman, Markman, Renner, Smith, Teverow

A Bachelor of Arts degree with a major in History prepares students for career positions in business, governmental and community service fields, and for entry into graduate programs in the Social Sciences and Law. A Bachelor of Science in Education with a major in Social Studies—

History emphasis—certifies a student to enter professional teaching at the secondary school level. A minor in History is available for students majoring in other disciplines. In addition, see below for a Social Sciences minor or the Social Studies in Secondary Education minor.

General Education requirements and Missouri statute requirements are met by History 110 or History 120. Suggested courses to meet the General Education requirement in the Social Sciences are History 130 or 140.

History 110 or 120 is a prerequisite for all upper division U. S. History courses.

History 130 or 140 is a prerequisite for all upper division European or Oriental History courses.

BACHELOR OF ARTS WITH A MAJOR IN HISTORY

General Education Requirements (see pages 36, 38) 46* 40

Computer Literacy Requirement—determined by the Social Sciences Department 2-3

Foreign Language (two courses in one language) 10

History Requirements 33

Hist 110 United States History 1492-1877 3

Hist 120 United States History 1877 to Present 3

Hist 130 Western Civilization to 1660 3

Hist 140 Western Civilization Since 1660 3

Hist 498 Seminar in History** 3

OR Hist 499 Independent Study** 3

Upper Division United States History** 6

Upper Division European or Oriental History** 6

Upper Division History Electives** 6

Electives 38-39 124***

*Required History courses satisfy Major requirements and 6 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SOCIAL STUDIES

HISTORY EMPHASIS

PLAN B

SINGLE TEACHING FIELD

Semester Hours

General Education Requirements

(see pages 36, 38) 46* 34

History Requirements 33

Hist 110 United States History 1492-1877 3

Hist 120 United States History 1877-Present 3

Hist 130 Western Civilization to 1660 3

Hist 140 Western Civilization Since 1660 3

Hist 498 Seminar in History** OR

Hist 499 Independent Study** 3

Upper Division United States History** 6

Upper Division European or Oriental History** 6

Upper Division History Electives** 6

Supporting Requirements 21

PSc 120 Government: U.S., State, Local 3

Upper Division Political Science 3

Soc 110 Introduction to Sociology 3

Upper Division Sociology Elective 3

Geog 211 Regions and Nations 3

Upper Division Geography Elective 3

Econ 201 Principles of Economics (Macro) 3

OR Other Economics course 3

Education Certification Requirements

(see pages 117, 118) 37 125

*Required History, Political Science, Sociology, and Economics courses satisfy Major requirements and 12 hours of General Education.

**See Prerequisites

MINOR IN HISTORY

Semester Hours

Hist 110 or Hist 120 United States History 3

Hist 130 or Hist 140 Western Civilization 3

Upper Division United States History Electives* 6

Upper Division European or Oriental History Electives* 6

18

*Must be chosen with approval of History advisor.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 2205

History Major

FRESHMAN YEAR

1st Semester

Course Hours

Gen Ed [Hist 110 or 120 U.S. History] 3

Gen Ed [Eng 101 Composition] 3

Gen Ed [Math 110 Intro to College Math] 3

Gen Ed [HPER 101 P. E. Activity] 2

Gen Ed [Humanities and Fine Arts] 3

Psy 120 Freshman Orientation 1

15

2nd Semester

Hist 120 U.S. History 1877-Present or Hist 110 3

Gen Ed [Eng 102 Composition] 3

Gen Ed [PSc 120 Gov't, U. S., State, and Local] 3

Gen Ed [Bio 101 General Biology] 4

Gen Ed [HPER 160 Personal Health] 2

15

SOPHOMORE YEAR

1st Semester

Hist 130 Western Civilization to 1660 3

Foreign Language 5

Gen Ed [Comm 100 Oral Communications] 3

Gen Ed [Literature] 3

Elective 3

17

2nd Semester

Hist 140 Western Civilization Since 1660 3

Foreign Language 5

Gen Ed [Econ 201 Principles of Economics] 3

Gen Ed [Soc 110 Intro to Sociology] 3

[Computer Literacy course selected with advisor's approval] 3

17

JUNIOR YEAR

1st Semester		
Hist	Upper Division U.S. History	3
Gen Ed	[Phys 100 Fund of Physical Science]	5
Gen Ed	[Humanities and Fine Arts]	3
Elective	[A minor is suggested]	3
		14

2nd Semester		
Hist	Upper Division U.S. History	3
Electives	[A minor is suggested]	12
		15

SENIOR YEAR

1st Semester		
Hist	Upper Division European or Oriental History	3
Hist	Upper Division History	3
Electives	[A minor is suggested]	9
		15

2nd Semester		
Hist	Upper Division European or Oriental	3
Hist	Upper Division History	3
Hist 498	Seminar or Hist 499 Independent Study*	3
Electives	[A minor is suggested]	7
		16

*See Prerequisites
[] Dept. Recommendation.

For additional information contact:
Dr. Robert Markman
Office: 12, Library Annex
Phone: Ext. 247

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0843
Social Studies Major (Plan B)
Single Teaching Field

History Emphasis

FRESHMAN YEAR

1st Semester		
Course		Hours
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[Eng 101 Composition]	3
Psy 110	Psychology of Human Development or Psy 100 & 301	5
Gen Ed	[Math 110 Intro to College Math]	3
Psy 120	Freshman Orientation	1
		15

2nd Semester		
Hist 120	U.S. History 1877-Present or Hist 110	3
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[PSc 120 Gov't, U. S., State, and Local]	3
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[HPER 101 P. E. Activity]	2
		15

SOPHOMORE YEAR

1st Semester		
Hist 130	Western Civilization to 1660	3
Gen Ed	[Comm 100 Oral Communications]	3
Gen Ed	[Literature]	3
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Phys 100 Fund of Physical Science]	5
		16

2nd Semester		
Hist 140	Western Civilization 1660 to Present	3
Geog 211	Regions and Nations	3
Gen Ed	[Soc 110 Intro to Sociology]	3
Gen Ed	[Humanities and Fine Arts]	3
Psy 310	Educational Psychology	2
Educ 302	Exceptional Child	2
		16

JUNIOR YEAR

1st Semester		
Hist	Upper Division U.S. History	3
Gen Ed	[Econ 201 (Macro) or other Economics course]	3
Educ 300	Clinical Experiences	2
Educ 330	Structures of Teaching	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2
Educ 401	Use of Computer Software in Classroom	2
		16

2nd Semester		
Hist	Upper Division U.S. History	3
Hist	Upper Division European or Oriental History	3
Soc	Upper Division Elective	3
Hist	Upper Division Elective	3
PSc	Upper Division Elective	3
		15

SENIOR YEAR

1st Semester		
Hist	Upper Division Elective	3
Hist	Upper Division European or Oriental History	3
Hist 498	Seminar in History or Hist 499 Internship	3
Geog	Upper Division Elective	3
Gen Ed	[Humanities and Fine Arts]	3
Educ 422	Reading in the Secondary School	2
		17

2nd Semester		
Professional Semester		16

See Page 117 for specific Education Department requirements.

For additional information contact:
Dr. G. K. Renner
Office: 15 Library Annex
Phone: Ext. 264

MATHEMATICS

FACULTY:

Martin, Head; Bertch, Elick, Jolly, Livingston, Mulkey, Shields, Subramanian, Vilas, Walljasper, Wolfe

In an increasingly technological society, applications of mathematics continue to increase in variety. Persons with quantitative ability and training are in high demand. Career opportunities exist in a diversity of fields such as engineering, computer science, economics, statistics, operations research, management, and education. Missouri Southern graduates are enjoying success in all of these areas. Some graduates choose to begin careers immediately upon graduation; others choose to continue their education in graduate school. The curriculum is designed to prepare students for either path.

For the student wishing to prepare for a career in engineering, the Mathematics Department and the Physical Science Department have worked in close cooperation with the staff at the University of Missouri-Rolla to develop a "Model Program for Engineering Transfers." Students may obtain a copy of this pamphlet from the Department Head. The program consists basically of two years at Missouri Southern and two years at Rolla. Naturally, time spent at either institution varies depending on the student's individual rate of progress.

General Education requirements for the Baccalaureate or the Associate of Arts degree can be met with any mathematics course numbered 110 or above. Note the limitations on Math 111 in the course descriptions. General Education requirements for the Associate of Science degree can be met with any mathematics course numbered 030 or above.

BACHELOR OF SCIENCE WITH A MAJOR IN MATHEMATICS

		Semester Hours
General Education Requirements		
(see pages 36, 38) 46*		38
Mathematics Requirements		39
Math 150 Calculus with		
Analytic Geometry		
I**		5
Math 250 Calculus with		
Analytic Geometry		
II**		5

Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math Electives numbered above 320	21
Supporting Requirements	18
Physics and/or Chemistry electives (Excluding Chem 100, Phys 100, Phys 180, Phys 300)	15
Comp 115 (or above)	3
Electives	29
	124***

*Required Mathematics and Physics courses satisfy Major requirements and 8 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MATHEMATICS PLAN A

ONE OF TWO TEACHING FIELDS

	Semester Hours
General Education Requirements (see pages 36, 38) 46*	40
Mathematics Requirements	30
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 332 Geometry	3
Math 342 Abstract Algebra** OR	
Math 351 Linear Algebra**	3
Math Electives numbered above 320***	6
Supporting Requirements	3
Comp 115 (or above)	3
Education Certification Requirements (see pages 117, 118)	35
Second teaching field (some fields exceed 30 hours)	30
	138****

*Required courses in Mathematics and Psychology satisfy Major requirements and

6 hours of General Education.

**See Prerequisites

***Consult advisor to satisfy state certification requirements.

****(varies with 2nd field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MATHEMATICS PLAN B

SINGLE TEACHING FIELD

	Semester Hours
General Education Requirements (see pages 36, 38) 46*	35
Mathematics Requirements	33
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 332 Geometry	3
Math 342 Abstract Algebra** OR	
Math 351 Linear Algebra**	3
Math Electives numbered above 320**	9
Supporting Requirements	13
Physics and/or Chemistry electives (Excluding Chem 100, Phys 100, Phys 180)	10
Comp 115 (or above)	3
Education Certification Requirements (see pages 117, 118)	35
Electives	8
	124

*Required courses in Mathematics, Physical Science and Psychology satisfy Major requirements and 11 hours of General Education.

**See Prerequisites

***Consult advisor to satisfy state certification requirements.

MINOR IN MATHEMATICS

	Semester Hours
Math 150 Calculus with Analytic Geometry I	5
Math 250 Calculus with Analytic Geometry II	5
Math electives numbered above 250	11
	21

Suggested Orders of Study

BACHELOR OF SCIENCE™

Major Code 1701

Mathematics

FRESHMAN YEAR

Course	Hours
1st Semester	
Math 150 Calculus I	5
Chem 101 General Chemistry I	5
Gen Ed [Eng 101 Composition]	3
Gen Ed [Literature or Fine Art]	3
Psy 120 Freshman Orientation	1
	17

2nd Semester

Math 250 Calculus II	5
Gen Ed [Eng 102 Composition]	3
Phys 250 General Physics	4
Comp 115 Computing I (or higher)	3
Gen Ed [Comm 100 Oral Communications]	3
	18

SOPHOMORE YEAR

1st Semester	
Math 260 Calculus III	5
Gen Ed [Econ 201 Principles of Economics]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [HPER 101 P.E. Activity]	2
Physics or Chemistry Electives	3-5
	16-18

2nd Semester

Math 300 Fundamentals of Math Thought	3
Math Elective [322]	3
Gen Ed [Psy 100 or Soc 110]	3
Gen Ed [Literature or Fine Art]	3
Elective [Economics]	3
	15

JUNIOR YEAR

1st Semester	
Math Elective	6
Gen Ed [Literature or Fine Art]	3
Chemistry or Physics	3-5
Gen Ed [PSC 120 Government]	3
	15-17

2nd Semester

Math Elective	6
Gen Ed [Bio 101 General Biology]	4
Gen Ed [HPER 160 Personal Health]	2
Electives	6
	18

SENIOR YEAR

1st Semester	
Math Electives	6
Electives	9
	15
2nd Semester	
Math Electives	6
Electives	9
	15

Chem 100, Phys 100, Phys 180, Phys 300 not acceptable for any of the fifteen credit hour requirement in Chemistry or Physics.

[] Department Recommendations

For additional information contact:
Dr. J. Larry Martin
Office: 200 Reynolds Hall
Phone: Ext. 240

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0833
Mathematics Major (Plan B)
Single Teaching Field

FRESHMAN YEAR

Course	Hours
1st Semester	
Math 150 Calculus I	5
Gen Ed [Eng 101 Composition]	3
Psy 110 Psychology of Human Development	5
Gen Ed [HPER 101 Intro to P.E.]	2
Psy 120 Freshman Orientation	1
	16

2nd Semester	
Math 250 Calculus II	5
*Chem 101	
OR	
Phys 250	5
Gen Ed [Eng 102 Composition]	3
Comp 115 Computing I (or higher)	3
	16

SOPHOMORE YEAR

1st Semester	
Math 260 Calculus III	5
*Chemistry	
OR	
Physics	3-5
Gen Ed [Comm 100 or 131]	3
Gen Ed [Literature]	3
Gen Ed [HPER 160 Personal Health]	2
	16-18

2nd Semester	
Math 300 Fundamentals of Math Thought	3
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [Art, Music, Theatre, Philosophy]	3
Elective	3-5
	16-18

JUNIOR YEAR

1st Semester	
Math 332	
OR	
Math 361	3
Math Elective	3
Educ 300 Clinical Experience	2
Educ 330 Structures of Teaching	2
Educ 331 Micro Teaching	2
Educ 370 Instructional Media	2
Gen Ed [Econ 180 American Economic System]	3
	17

2nd Semester	
Math Elective	6
Gen Ed [PSc 120 Government]	3
Psy 310 Educational Psychology	2
Psy 302 Exceptional Child	2
Gen Ed [Literature or Fine Art]	3
	16

SENIOR YEAR

1st Semester	
Math 332	
OR	
Math 361	3
Math Elective	3
Electives	9
	15

2nd Semester	
Educ 339 Math Methods	2
Educ 402 Foundations of Education	2
Educ 432 Critical Issues	2
Educ 422 Reading in Secondary School	2
Required Elective [Educ 412, 420, 423, or Psy 412]	2
Educ 462 Student Teaching	8
	18

*Ten hours in Physics and/or Chemistry (excluding Chem 100, Phys 100 and Phys 180) are required. Electives must be approved by math advisor.

[] Department Recommendations

For additional information contact:
Dr. J. Larry Martin
Office: 200 Reynolds Hall
Phone: Ext. 240

MUSIC

FACULTY:

Havely, Head; Carnine, Elliott, Harrell, Harris, Sims, Thelen

The Department of Music offers a Bachelor of Arts degree and a Bachelor of Science in Education degree with a major in music. Each degree prepares graduates for performance, studio teaching, and/or continued study toward an advanced degree. In addition, the Bachelor of Science in Education degree prepares graduates for teaching in public education.

General Education requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110—Music Appreciation.

BACHELOR OF ARTS WITH A MAJOR IN MUSIC

	Semester Hours
General Education Requirements (see pages 36, 38) 46*	43
Computer Literacy Requirement—determined by the Music Department	2-3
Foreign Language (two courses in one language)	10

Music Requirements

72

Mus 109 Sight-singing and Ear-training	2
Mus 210 Sight-singing and Ear-training**	2
Mus 111 Music Theory	3
Mus 112 Music Theory**	3
Mus 182 Conducting Techniques	2
Mus 211 Music Theory**	3
Mus 212 Music Theory**	3
Mus 240 Recital Attendance (8 semesters)	0
Mus 311 History of Music	3
Mus 312 History of Music	3
Mus 420 Form and Analysis**	3
Mus 431 Orchestration**	3
Mus 444 Advanced Conducting Techniques**	2
Mus 450 Senior Recital Large Music Ensemble (8 semesters)	16
Private Study In One Area (8 semesters)	16
Applied Piano Elective (Except Keyboard Majors) (Keyboard Majors must make 8 semester hours of music electives in lieu of the applied piano elective.)	8

127-128***

*Required courses in Music satisfy both major requirements and 3 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC PLAN B

SINGLE TEACHING FIELD

OPTION 1

INSTRUMENTAL EMPHASIS

Semester Hours

General Education Requirements (see pages 36, 38) 46*	40
Music Requirements	73
Mus 109 Sight-singing and Ear-training	2
Mus 210 Sight-singing and Ear-training**	2
Mus 111 Music Theory	3
Mus 112 Music Theory**	3
Mus 182 Conducting Techniques	2

Mus 211 Music Theory**	3
Mus 212 Music Theory**	3
Mus 231 String Techniques	1
Mus 232 Brass Techniques	1
Mus 233 Percussion Techniques (Not open to percussion majors. Percussion majors must substitute a second semester of Mus 232 or 234.)	1
Mus 234 Woodwind Techniques	1
Mus 240 Recital Attendance (7 semesters)	0
Mus 311 History of Music	3
Mus 312 History of Music	3
Mus 333 Music for the Elementary Grades***	2
Mus 411 Marching Band Methods**	1
Mus 420 Form and Analysis**	3
Mus 431 Orchestration**	3
Mus 432 Music in the Public School	2
Mus 444 Advanced Conducting Techniques**	2
Mus 450 Senior Recital	0
Vocal/Choral Elective	2
Piano/Wind Instrument	2

(a) Instrumental Major, other than piano: two semester hours of piano study or the equivalent (Class piano may be included).

(b) Piano Major: two semester hours of private study on a wind instrument or the equivalent. The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test.

Private Study as a Major in One Area (7 semesters) 14
 Large Ensemble (7 semesters) 14
 Brass, Woodwind, or Percussion Major: The seven semesters of large ensemble must be in band.

String Major: The seven semesters of large ensemble must be in orchestra.

Education Certification Requirements (see pages 117-118) **37** **150**

*Required courses in Music and Psychology satisfy both major requirements and 6 hours of General Education.

**See Prerequisites

***Must be completed prior to the Professional Semester of supervised teaching.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC

PLAN B

SINGLE TEACHING FIELD

OPTION II

VOCAL EMPHASIS

Semester Hours

General Education Requirements (see pages 36, 38) **46*** **40**

Music Requirements **74**

Mus 109 Sight-singing and Ear-training	2
Mus 210 Sight-singing and Ear-training	2
Mus 111 Music Theory	3
Mus 112 Music Theory**	3
Mus 182 Conducting Techniques	2
Mus 211 Music Theory**	3
Mus 212 Music Theory**	3
Mus 240 Recital Attendance (7 semesters)	0
Mus 310 Vocal Techniques	2
Mus 311 History of Music	3
Mus 312 History of Music	3
Mus 333 Music for the Elementary Grades**	2
Mus 420 Form and Analysis**	3
Mus 431 Orchestration**	3
Mus 432 Music in the Public School***	2
Mus 444 Advanced Conducting Techniques**	2
Mus 450 Senior Recital	0
Instrumental Elective	2
Piano/Voice	6

(a) Piano Major: Six semester hours of private voice study or the equivalent (Class voice may be included)
 (b) Voice Major: Six semester hours of piano study or the equivalent

(two semesters of private study following the satisfactory completion of Mus 214)

The Requirement Under (a) and (b) may be satisfied through private study and/or by a Proficiency Test. Satisfactory completion of Mus 214 constitutes passing the Piano Proficiency Test.

Private Study as a Major In One Area (7 semesters) 14

Concert Chorale (7 semesters) 14

Education Certification Requirements (see pages 117, 118) **37** **151**

*Required courses in Music and Psychology satisfy both major requirements and 6 hours of General Education.

**See Prerequisites

***Must be completed prior to the Professional Semester of supervised teaching.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC

PLAN B

SINGLE TEACHING FIELD

OPTION III

DOUBLE CERTIFICATION

Semester Hours

General Education Requirements (see pages 36, 38) **46*** **40**

Music Requirements **107**

All of the requirements listed for Option I and Option II, either (a) or (b), with the exception of the applied major requirement 85

Private study as an applied major in one primary area (seven semesters) 14

Private study as an applied elective in one secondary area (four semesters) A proficiency test in the secondary major area must be passed before graduation 8

A Senior Recital will be required only in the primary applied area.

Education Certification requirements (see pages 117, 118) **37** **184**

ARTS & SCIENCES

MINOR IN MUSIC

	Semester	Hours
Mus 111 Music Theory	3	
Mus 112 Music Theory	3	
Large Ensemble	4	
Applied Music Elective		
(Two Semesters)	2	
Music Electives*	9	
	21	

*Must be made with prior approval of music advisor.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1005
Music Major

FRESHMAN YEAR

Course	Hours
Mus 111 Music Theory	3
Mus 207 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Applied Piano Elective/Music Elective	1-2
Large Ensemble	2
Gen Ed [Eng 101 Composition]	3
Gen Ed [Econ 180 American Economic System]	3
Psy 120 Freshman Orientation	1
	15-16

2nd Semester

Mus 112 Music Theory	3
Mus 109 Sight Singing & Ear Training	2
Mus 208 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Applied Piano Elective/Music Elective	1-2
Large Ensemble	2
Gen Ed [Eng 102 Composition]	3
Gen Ed [Math 110 Intro to College Math]	3
	16-17

SOPHOMORE YEAR

1st Semester	
Mus 211 Music Theory	3
Mus 210 Sight Singing & Ear Training	2
Mus 207 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Applied Piano Elective/Music Elective	1-2
Large Ensemble	2
Gen Ed [HPER 101 P.E. Activity]	2
Psy 110 Human Growth and Development	5
	17-18

2nd Semester

Mus 212 Music Theory	3
Mus 208 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Applied Piano Elective/Music Elective	1-2
Large Ensemble	2
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [Bio 101 Biology]	4
	15-16

JUNIOR YEAR

1st Semester	
Mus 182 Conducting Techniques	2
Mus 420 Form & Analysis	3
Mus 407 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Applied Piano Elective/Music Elective	1-2
Large Ensemble	2
Gen Ed [Comm 100 Oral Communications]	3
Gen Ed [Foreign Language]	5
	18-19

2nd Semester

Mus 444 Advanced Conducting	2
Mus 408 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus 431 Orchestration	3
Applied Piano Elective/Music Elective	1-2
Large Ensemble	2
Gen Ed [Literature or Theatre]	3
Gen Ed [Foreign Language]	5
	18-19

SENIOR YEAR

1st Semester	
Mus 311 History of Music	3
Mus 407 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Applied Piano Elective/Music Elective	1-2
Large Ensemble	2
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [Literature]	3
	16-17

2nd Semester

Mus 312 History of Music	3
Mus 408 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus 450 Senior Recital	1-2
Large Ensemble	2
Gen Ed [PSc 120 U. S. Government]	3
Educ 401 Use of Computer Software in Classroom (or Computer course approved by Music Dept.)	2
	13-14

[] Dept. Recommendation

For additional information contact:
Mr. Pete Havely, Head, Dept. Fine Arts
Office: 216 Music Building
Phone: Ext. 282

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0832
Music Major (Plan B)
Single Teaching Field

Piano Major With Vocal Emphasis

FRESHMAN YEAR

1st Semester	
Mus 111 Music Theory	3
Mus 207 Applied Music-Major Piano	2
Mus 105 Applied Music-Voice	1
Mus 121 Choir	2
Mus 240 Recital Attendance	Cr
Gen Ed [Eng 101 Composition]	3

Gen Ed [Econ 180 American Economic System]	3
Psy 120 Freshman Orientation	1
Instrumental Elective	1-2
	16-17

2nd Semester

Mus 112 Music Theory	3
Mus 109 Sight-singing & Ear-training	2
Mus 208 Applied Music Major Piano	2
Mus 106 Applied Music Voice	1
Mus 121 Choir	2
Mus 240 Recital Attendance	Cr
Gen Ed [Eng 102 Composition]	3
Gen Ed [HPER 160 Personal Health]	2
Gen Ed [Math 110 Intro College Math]	3
Instrumental Elective	1-2
	19-20

SOPHOMORE YEAR

1st Semester	
Mus 310 Vocal Techniques	2
Mus 211 Music Theory	3
Mus 210 Sight-singing & Ear-training	2
Mus 207 Applied Music Major Piano	2
Mus 105 Applied Music Voice	1
Mus 121 Choir	2
Mus 240 Recital Attendance	Cr
Gen Ed [HPER 101 Intro P.E. Activity]	2
Psy 110 Human Growth & Development	5
	19

2nd Semester

Mus 212 Music Theory	3
Mus 208 Applied Music Major Piano	2
Mus 106 Applied Music Voice	1
Mus 121 Choir	2
Mus 240 Recital Attendance	Cr
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Comm 100 Oral Communication]	3
	18

JUNIOR YEAR

1st Semester	
Mus 182 Conducting	2
Mus 311 History of Music	3
Mus 420 Form & Analysis	3
Mus 407 Applied Music Major Piano	2
Mus 305 Applied Music Voice	1
Mus 321 Choir	2
Mus 240 Recital Attendance	Cr
Educ 300 Clinical Experiences	2
Educ 330 Structures of Teaching Secondary	2
Educ 331 Microteaching	2
Educ 370 Instructional Media	2
	21

2nd Semester

Mus 444 Advanced Conducting	2
Mus 312 History of Music	3
Mus 408 Applied Music Major	2
Mus 306 Applied Music Voice	1
Mus 321 Choir	2
Mus 240 Recital Attendance	Cr
Mus 333 Music in Elementary Grades	2
Mus 431 Orchestration	3
Educ 302 Exceptional Child	2
Gen Ed [PSc 120 U.S. State Government]	3
Gen Ed [Literature or Theatre]	3
	23

SENIOR YEAR

1st Semester

Mus 421	Choir	2
Mus 432	Music in Public Schools	2
Mus 408	Applied Music Major	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	2
Psy 310	Educational Psych	2
Educ 302	Exceptional Child	2
Gen Ed	[Phys 100 Fund of Physical Science]	5
Educ 401	Use of Computer Software in Classroom (or Computer course approved by Music Dept.)	2
Educ 422	Teaching Reading in Secondary Schools	2
Gen Ed	[Literature]	3

2nd Semester

Mus 335	Teaching Music in Secondary School	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Educ 420	Intro Counseling or	
Psy 412	Measurement and Evaluation in Education	2
Educ 464	Student Teaching	8

[] Dept. Recommendation

For additional information contact:
Mr. Pete Havely, Head, Dept. Fine Arts
Office: 216 Music Building
Phone: Ext. 282

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0832
Music Major (Plan B)

Single Teaching Field

Piano Major With Instrumental Emphasis

FRESHMAN YEAR

1st Semester

Course	Hours
Mus 111	Music Theory 3
Mus 233 or 231	Percussion/String Techniques 1
Mus 207	Applied Music Major Piano 2
Mus 191	Band 2
Mus 240	Recital Attendance Cr
Gen Ed	[Eng 101 Composition] 3
Gen Ed	[Econ 180 American Economic System] 3
Psy 120	Freshman Orientation 1

2nd Semester

Mus 232 or Mus 234	Brass/Woodwind Techniques	1
Mus 109	Sight-Singing & Ear-Training	2
Mus 208	Applied Music Major Piano	2
Mus 192	Band	2
Mus 240	Recital Attendance	Cr
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Math 110 Intro to College Math]	3

SOPHOMORE YEAR

1st Semester

Mus 233 or Mus 231	Percussion/String Techniques	1
Mus 121 or Mus 310	Choir or Vocal Techniques	2
Mus 211	Music Theory	3
Mus 210	Sight-singing & Ear-training	2
Mus 207	Applied Music Major Piano	2
Mus 240	Recital Attendance	Cr
Gen Ed	[HPER 101 P. E. Activity]	2
Psy 110	Human Growth & Development	5

2nd Semester

Mus 232 or Mus 234	Brass/Woodwind Techniques	1
Mus 212	Music Theory	3
Mus 208	Applied Music Major Piano	2
Mus 292	Band	2
Mus 240	Recital Attendance	Cr
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[Comm 100 Oral Communications]	3

JUNIOR YEAR

1st Semester

Mus 182	Conducting Techniques	2
Mus 305	Applied Music Woodwind/Brass	1
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 407	Applied Music Major Piano	2
Mus 391	Band	2
Mus 240	Recital Attendance	Cr
Educ 300	Clinical Experiences	2
Educ 330	Structure of Teaching Secondary	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2

2nd Semester

Mus 444	Advanced Conducting	2
Mus 306	Applied Music Woodwind/Brass	1
Mus 312	History of Music	3
Mus 408	Applied Music Major	2
Mus 392	Band	2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elementary Grades	2
Mus 431	Orchestration	3
Educ 302	Exceptional Child	2
Gen Ed	[PSc 120 U.S. State Government]	3
Gen Ed	[Literature or Theatre]	3

SENIOR YEAR

1st Semester

Mus 411	Marching Band Methods	1
Mus 491	Band	2
Mus 432	Music in Public School	2
Mus 408	Applied Music Major Piano	2
Mus 444	Advanced Conducting	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Psy 310	Educational Psychology	2
Educ 302	Exceptional Child	2
Gen Ed	[Phys 100 Fund of Physical Science]	5
Educ 401	Use of Computer Software in Classroom (or computer course approved by Music Dept.)	2
Educ 422	Reading	2
Gen Ed	[Literature]	3

2nd Semester

Mus 335	Teaching Music in Secondary School	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Educ 420	Intro Counseling OR	
Psy 412	Measurement & Evaluation in Education	2
Educ 464	Student Teaching	8

[] Dept. Recommendation

For additional information contact:
Mr. Pete Havely, Head, Dept. Fine Arts
Office: 216 Music Building
Phone: Ext. 282

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0832

Music Major (Plan B)

Single Teaching Field

Vocal Major

FRESHMAN YEAR

1st Semester

Course		Hours
Instrumental Elective		1-2
Mus 111	Music Theory	3
Mus 207	Applied Music Voice	2
Mus 113	Class Piano	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
Gen Ed	[Eng 101 Composition]	3
Gen Ed	[Econ 180 American Economic System]	3
Psy 120	Freshman Orientation	1
		16-17

2nd Semester

Mus 112	Music Theory	3
Instrumental Elective		1-2
Mus 109	Sight-singing & Ear-training	2
Mus 208	Applied Music Voice	2
Mus 114	Class Piano	1
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Math 110 Intro to College Math]	3

SOPHOMORE YEAR

1st Semester

Mus 310	Vocal Techniques	2
Mus 213	Class Piano	1
Mus 211	Music Theory	3
Mus 210	Sight Singing & Ear Training	2
Mus 207	Applied Music Voice	2
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
Gen Ed	[HPER 101 P. E. Activity]	2
Psy 110	Human Growth & Development	5

ARTS & SCIENCES

2nd Semester

Mus 214	Class Piano	1
Mus 212	Music Theory	3
Mus 208	Applied Music Voice	2
Mus 121	Choir	2
Mus 240	Recital Attendance	Cr
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[Comm 100 Oral Communications]	3
		18

JUNIOR YEAR

1st Semester

Mus 182	Conducting Techniques	2
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 407	Applied Music Voice	2
Mus 305	Piano	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Educ 300	Clinical Experiences	2
Educ 330	Structures of Teaching Secondary	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2
		21

2nd Semester

Mus 444	Advanced Conducting	2
Mus 312	History of Music	3
Mus 408	Applied Music Voice	2
Mus 306	Piano	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elementary Grades	2
Mus 431	Orchestration	3
Educ 302	Exceptional Child	2
Gen Ed	[PSC 120 U.S., State, Local Government]	3
		20

SENIOR YEAR

1st Semester

Mus 421	Choir	2
Mus 432	Music in Public School	2
Mus 408	Applied Music Voice	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Gen Ed	[Phys 100 Fund of Physical Science]	5
Educ 401	Use of Computer Software in Classroom (or Computer course approved by Music Dept.)	2
Educ 422	Teaching Reading in Secondary Schools	2
Gen Ed	[Literature]	3
Gen Ed	[Literature or Theatre]	3
		21

2nd Semester

Mus 335	Teaching Music in Secondary School	2
Educ 402	Foundations of Educations	2
Educ 432	Critical Issues in Education	2
Educ 420	Intro Counseling OR	
Psy 412	Measurement & Evaluation in Education	2
Educ 464	Student Teaching	8
		16

[] Dept. Recommendation

For additional information contact:

Mr. Pete Havely, Head, Dept. Fine Arts
Office: 216 Music Building
Phone: Ext. 282

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0832
Music Major (Plan B)
Single Teaching Field

Instrumental Major

FRESHMAN YEAR

1st Semester

Course	Hours
Mus 111 Music Theory	3
Mus 207 Applied Music Major	2
Mus 113 Class Piano	1
Mus 191 or Mus 151 Band/Orchestra	2
Mus 233 or Mus 231 Percussion Techniques/String	1
Mus 240 Recital Attendance	Cr
Gen Ed [Eng 101 Composition]	3
Gen Ed [Econ 180 American Economic System]	3
Psy 120 Freshman Orientation	1

2nd Semester

2nd Semester		
Mus 112	Music Theory	3
Mus 109	Sight Singing & Ear Training	2
Mus 208	Applied Music Major	2
Mus 114	Class Piano	1
Mus 192 or Mus 150	Band or Orchestra	2
Mus 232 or Mus 234	Brass or Woodwind	
	Technique	1
Mus 240	Recital Attendance	Cr
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Math 110 Intro to College Math]	3
		19

SOPHOMORE YEAR

1st Semester

Mus 121 or Mus 310	Choir or Vocal Techniques	2
Mus 213	Class Piano	1
Mus 211	Music Theory	3
Mus 210	Sight Singing and Ear Training	2
Mus 207	Applied Music Major	2
Mus 233 or Mus 231	Percussion/String Technique	1
Mus 191 or Mus 151	Band or Orchestra	2
Mus 240	Recital Attendance	C
Gen Ed	[HPER 101 Intro. P.E. Activity]	2
Psy 110	Human Growth & Development	5
		20

2nd Semester

2nd Semester	
Mus 214	Class Piano
Mus 212	Music Theory
Mus 208	Applied Music Major
Mus 232 or Mus 234	Brass or Woodwind Technique
Mus 191 or Mus 151	Band or Orchestra
Mus 240	Recital Attendance
Gen Ed	[Hist 110 or 120 U.S. History]
Gen Ed	[Bio 101 General Biology]
Gen Ed	[Comm 100 Oral Communications]

JUNIOR YEAR

1st Semester

Mus 182	Conducting Techniques	2
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 407	Applied Music Major	2
Mus 391 or Mus 351	Band or Orchestra	2
Mus 240	Recital Attendance	Cr
Educ 300	Clinical Experiences	2
Educ 330	Structures of Teaching	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2
		20

2nd Semester

Mus 444	Advanced Conducting	2
Mus 312	History of Music	3
Mus 408	Applied Music Major	2
Mus 392 or Mus 351 Band or Orchestra		2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elementary Grades	2
Mus 431	Orchestration	3
Gen Ed	[PSc 120 U.S., State, Government]	3
Educ 302	Exceptional Child	2
Educ 422	Teaching Reading in Secondary Schools	2
		21

SENIOR YEAR

1st Semester

Mus 391 or Mus 351 Band or Orchestra	2
Mus 411 Marching Band Methods	1
Mus 432 Music in Public School	2
Mus 408 Applied Music Major	2
Mus 450 Senior Recital	Cr
Mus 240 Recital Attendance	Cr
Psy 310 Educational Psychology	2
Gen Ed [Phys 100 Fund Phys Science]	5
Gen Ed [Literature]	3
Educ 401 Use of Computer Software In Classroom (Or computer course approved by Music Dept.)	2
Gen Ed [Literature or Theatre]	3
	22

2nd Semester

Mus 335	Teach Music in Secondary School	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Educ 420	Intro Counseling OR	
Psy 412	Measurement & Evaluation in Education	2
Educ 464	Student Teaching	8
		16

[] Dept. Recommendation

For additional information contact:

Mr. Pete Havely, Head, Dept. Fine Arts
Office: 216 Music Building
Phone: Ext. 282

PARALEGAL STUDIES

FACULTY:

Conboy, Head; Yates

The paralegal program is designed for the student seeking a career as a legal assistant working under the direction and supervision of an attorney in private practice, government service or legal assistance. However, the knowledge and skills acquired in the paralegal program are beneficial to students in the areas of law enforcement, pre-law, business law, and political science. Students who choose to learn more about the legal system and how to develop their own skills in legal research for personal enrichment are also encouraged to enroll.

At the present time there is no major offered in paralegal studies. However, a student enrolled in the paralegal program may obtain an Associate of Arts degree with an emphasis in paralegal studies. Paralegal Studies may be used as a minor. Students must have an advisor in Paralegal Studies.

MINOR IN PARALEGAL STUDIES

	Semester	Hours
PLS 201 Introduction to Legal Assistance	3	
PLS 302 Legal Research	3	
Electives from the following	15	
PLS 298 Topics in Paralegal Studies	3	
PLS 311 Property	3	
PLS 312 Civil Litigation*	3	
PLS 320 Family Law	3	
PLS 401 Wills, Trusts and Probate	3	
GB 301 Business Law I	3	
GB 302 Business Law II**	3	
PSc 431 Constitutional Law I	3	
PSc 432 Constitutional Law II	3	
PLS 491 Internship**	3	
PLS 498 Senior Seminar**	3	
PLS 499 Independent Study**	3	
Comm 310 Communications Law* OR		
LE 250 Criminal Law OR		
PSc 322 International Law OR		
GB 411 Labor Law	3	
Total		21

*Highly recommended.

**See Prerequisites.

Suggested Order of Study

ASSOCIATE OF ARTS

Major Code 7999

Emphasis in Paralegal Studies

(This is a general Associate of Arts degree, NOT a Paralegal Degree)

FRESHMAN YEAR

Course	Hours
1st Semester	
PLS 201 Intro to Legal Assistance	3
PLS 302 Legal Research	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [PSc 120 Gov't, U.S., State, and Local]	3
Psy 120 Freshman Orientation	1
Gen Ed [HPER 101 Physical Activities]	2
	15

2nd Semester

Gen Ed [Eng 102 Composition]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [Math 110 Intro to College Math]	3
PLS Upper Division Electives	6
	15

SOPHOMORE YEAR

Course	Hours
1st Semester	
Gen Ed [Econ 180 American Economic System]	3
Gen Ed [Science]	4-5
Gen Ed [Humanities and Fine Arts]	3
PLS Upper Division Electives	6
	16-17

2nd Semester

Gen Ed [Comm 100 Oral Communication]	3
Gen Ed [Literature]	3
PLS 491 Internship	3
PLS 498 Senior Seminar	3
PLS Upper-Division Elective	3
	15

[] Dept. Recommendation.

Suggested electives are Civil Litigation, Family Law; Property; Wills, Trusts and Probate.

For additional information contact:
Dr. Michael Yates
Office: 129 Library Annex
Phone: Ext. 333

PHILOSOPHY

FACULTY:

Lambert, Head; Harder

Philosophy offers courses which students may take to fulfill college Humanities and Fine Arts General Education requirements or take as free electives. Philosophy educates the student about the intellectual issues which a reflective person is likely to encounter in the various contexts of

civilized life, issues which arise for the individual simply by virtue of being human. Students are expected to approach philosophy with intellectual curiosity and a desire to expand their horizons.

PHYSICS

FACULTY:

Baiamonte, Head; Phillips, Sloan, Strobel

Physics graduates obtain a strong diversified background in science and mathematics which will qualify them to enter various areas of employment in industry, government, secondary education, or for entrance into graduate programs in physics and engineering. Students who plan to do graduate work in engineering should, with the help of a faculty advisor, select their free electives in the area they plan to enter.

The physics area of the Physical Science Department participates in cooperative two year pre-engineering programs which allow students to complete the first two years of an engineering degree at Missouri Southern and then transfer to an engineering school to complete the remaining two years of the degree. (See page 142)

General Education requirements can be met with Phys 100 or any 5 semester hour course in Physics.

BACHELOR OF SCIENCE WITH A MAJOR IN PHYSICS

	Semester	Hours
General Education Requirements (see pages 36, 38) 46*		38
Physics Requirements		36

Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Phys 301	Modern Physics**	4
Phys 322	Classical Mechanics**	3
Phys 341	Thermal Physics**	4
Phys 372	Electronic Circuits**	4
Phys 381	Intermediate Physics Laboratory**	3
Phys 401	Electricity and Magnetism**	4
Phys 452	Quantum Mechanics**	3
OR		
Phys 480	Selected Topics in Physics & Engineering	3
Phys 498	Seminar	1

Supporting Requirements	21
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Math 260 Calculus with Analytical Geometry III**	5
Math 322 Differential Equations**	3
Comp 120 Computing II	3
Electives***	29
	124****

*Required Physics and Mathematics courses satisfy Major requirements and 8 hours of General Education.

**See Prerequisites

***Suggested Electives (Chem 101, Chem 102, Comp 200, Math 351, Math 412, Math 431, and Phys 480)

****Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICS

PLAN A

ONE OF TWO TEACHING FIELDS

	Semester Hours
General Education Requirements (see pages 36, 38) 46*	31
Physics Requirements	22
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 322 Classical Mechanics**	3
Phys 381 Intermediate Physics Laboratory**	3
Phys 498 Seminar	2
Supporting Requirements	27
Chem 101 General Chemistry I**	5
Bio 110 Man and Environment	4
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Math 260 Calculus with Analytical Geometry III**	5
Comp 120 Computing II	3
Education Certification Requirements (see pages 117, 118)	35

Second Teaching Field (some fields exceed 30 hours)

30

145***

*Required Physics, Mathematics, Biology, and Psychology courses satisfy Major requirements and 15 hours of General Education.

**See Prerequisites

***Varies with 2nd field

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICS

PLAN B

SINGLE TEACHING FIELD

	Semester Hours
General Education Requirements (see pages 36, 38) 46*	31
Physics Requirements	26
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 322 Classical Mechanics**	3
Phys 381 Intermediate Physics Laboratory**	3
Phys 498 Seminar	2
Physics Upper Division Electives	4
Supporting Requirements	27
Chem 101 General Chemistry I**	5
Bio 110 Man and Environment	4
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Math 260 Calculus with Analytical Geometry III**	5
Comp 120 Computing II	3
Education Certification Requirements (see pages 117, 118)	35
Electives***	5
	124

*Required Physics, Mathematics, Biology, and Psychology courses satisfy Major requirements and 15 hours of General Education.

**See Prerequisites

***Suggested Electives (Chem 102, Phys 372, and Geol 110)

MINOR IN PHYSICS

	Semester Hours
Phys 250 General Physics I	5
Phys 260 General Physics II	5
Physics Upper Division Electives (Excluding Phys 300)	8
	18

Suggested Orders of Study

BACHELOR OF SCIENCE

Major Code 1902
Physics Major

FRESHMAN YEAR

1st Semester		Hours
Course		
Math 150	Calculus I	5
Elective	[Chem 101 Gen Chem I] (Alg & Trig)	5
Gen Ed	[Eng 101 Composition]	3
Comp 120	Computing II*	3
Psy 120	Freshman Orientation	1
		17
2nd Semester		
Phys 250	Gen Physics I (Math 150)	5
Math 250	Calculus II (Math 150)	5
Elective	[Chem 102 Gen Chem II]	5
Gen Ed	[Eng 102 Composition]	3
		18

SOPHOMORE YEAR

1st Semester		Hours
Phys 260	General Physics II (Phys 250)	5
Math 260	Calculus III (Math 250)	5
Gen Ed	[PSc 120 Govt: U.S., State, & Local]	3
Gen Ed	[HPER 101 Physical Activities]	2
Gen Ed	[Hist 110 or 120 U.S. History]	3
		18
2nd Semester		
Phys 322	Classical Mechanics	
OR		
Phys 341	Thermal Physics	3-4
Phys 372	Electronic Circuits	4
Math 322	Differential Equations	3
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Econ 180 American Economic System]	3
		15-16

JUNIOR YEAR

1st Semester		Hours
Phys 301	Modern Physics	4
Phys 381	Intermediate Physics Lab	
OR		
Phys 401	Electricity & Magnetism	3-4
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[Literature]	3
		14-15

2nd Semester		
Phys 341	Thermal Physics	
OR		
Phys 322	Classical Mechanics	3-4
Phys 452	Quantum Mechanics	
OR		
Phys 480	or Elective	3
Math Elective		3
Gen Ed	[Communications]	3
Gen Ed	[Humanities & Fine Arts]	3
15-16		

SENIOR YEAR

1st Semester		
Phys 401	Electricity & Magnetism	
OR		
Phys 381	Intermediate Physics Lab	3-4
Gen Ed	[Humanities & Fine Arts]	3
Gen Ed	[Behavioral & Social Science]	3
Phys or Math Elective		3
Electives		3
15-16		

2nd Semester		
Phys 452	Quantum Mechanics	
OR		
Phys 480 or Elective		3
Phys 498	Seminar	1
Electives		12
16		

() Prerequisite
[] Department Recommendation

*Students with a weak background in Physics should consider taking Phys 140 instead of Comp 120.

Students should enroll in Comp 120 Computing II before the Junior Year.

For additional information contact:
Dr. Russell Phillips
Office: 226 Reynolds Hall
Phone: Ext. 241 or 292

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0848
Physics Major (Plan B)
Single Teaching Field

FRESHMAN YEAR

1st Semester		
Course		Hours
Elective	[Chem 101 General Chemistry]	5
Math 150	Calculus I*	5
Gen Ed	[Eng 101 Composition]	3
Comp 120	Computing II*	3
Psy 120	Freshman Orientation	1
17		

2nd Semester		
Elective	[Chem 102 Gen Chem II] (Chem 101)	5
Math 250	Calculus II (Math 150)	5
Gen Ed	[Eng 102 Composition]	3
Phys 250	General Physics I (Math 150)	5
18		

SOPHOMORE YEAR

1st Semester		
Math 260	Calculus III (Math 250)	5
Phys 260	General Physics II (Phys 250)	5
Psy 110	Psychology of Human Development	5
Gen Ed	[HPER 101 Physical Activities]	2
17		

2nd Semester		
Phys 322	Classical Mechanics	
OR		
Physics Elective		3-4
Elective	[Math 322 Differential Equations] (Math 260)	3
Educ 302	The Exceptional Child	2
Psy 310	Educational Psychology (Psy 110)	2
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[Communications]	3
16-17		

JUNIOR YEAR

1st Semester		
Phys 301	Modern Physics	4
Phys 381	Intermediate Physics Lab	
OR		
Physics Elective		3-4
Educ 300	Clinical Experience	2
Educ 330	Structure of Teaching/Secondary	2
Educ 331	Microteaching	2
Educ 370	Introduction to Instructional Media	2
Gen Ed	[HPER 160 Personal Health]	2
17-18		

2nd Semester		
Phys 322	Classical Mechanics	
OR		
Phys 372	Electronic Circuits	3-4
Gen Ed	[Literature]	3
Gen Ed	[Humanities & Fine Arts]	3
Bio 110	Man and Environment	4
Gen Ed	[PSc 120 Govt: U.S., State, Local]	3
16-17		

SENIOR YEAR

1st Semester		
Phys 381	Intermediate Physics Lab	
OR		
Physics Elective		3-4
Phys 498	Seminar	2
Gen Ed	[Econ 180 American Economic System]	3
Gen Ed	[Humanities & Fine Arts]	3
Free Electives		6
17-18		

2nd Semester		
Educ 333	Teaching Science in Secondary Schools	2
Educ 402	Foundations of Education	2
Educ 422	Reading in the Secondary School	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching Secondary	8
Required Elective	Educ 412, 420, 423, or Psy 412	2
18		

() Prerequisites
[] Department Recommendation

*Students with a weak background in Physics should consider taking Phys 140 instead of Comp 120.

For additional information contact:
Dr. Russell Phillips
Office: 226 Reynolds Hall
Phone: Ext. 241 or 292

POLITICAL SCIENCE**FACULTY:**

Conboy, Head; St. Clair, Yates, Youst

Among other career options, the Bachelor of Arts degree with a major in political science is appropriate for those students seeking to do graduate work in political science, enter professional schools of law or public administration, join the public service, work in community service, and, in some instances, teach in secondary schools. A minor in Political Science is available for students majoring in other disciplines. In addition, (see page 75) for a Social Sciences minor or the Social Studies in Secondary education minor.

General Education requirements and Missouri statute requirements are met by PSc 120.

PSc 120 is a prerequisite for all other political science courses.

BACHELOR OF ARTS WITH A MAJOR IN POLITICAL SCIENCE

Semester Hours

General Education Requirements
(see pages 36, 38) 46*

Computer Literacy Requirement—determined by the Social Sciences Department 2-3

Foreign Language (two courses in one language) 10

Political Science Requirements 30

PSc 120 Gov't. U.S. State and Local 3

PSc Electives** chosen with approval of Political Sciences advisor 27

Electives 38-39
124**

*Political Science 120 satisfies Major requirements and 3 hours of General Education.

**Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SOCIAL STUDIES POLITICAL SCIENCE EMPHASIS PLAN B

SINGLE TEACHING FIELD

Semester Hours

General Education Requirements
(see pages 36, 38) 46*

Political Science Requirements 15

PSc 120 Government: U.S., State,
Local 3

Upper-Division Political Science
Courses 12

Supporting Requirements 36

Hist 110 United States
History 1492-1877 3

Hist 120 United States
History 1877-Present 3

Hist 130 Western Civilization
to 1660 3

Hist 140 Western Civilization
Since 1660 3

Upper Division United States
History** 6

Upper Division European or
Oriental History** 3

Soc 110 Introduction to
Sociology 3

Upper Division Sociology
Elective** 3

Geog 211 Regions and
Nations 3

Upper Division Geography
Elective 3

Econ 201 Principles of
Economics (Macro) or other
Economics Course 3

Elective 2

**Education Certification
Requirements**

(see pages 117, 118) 37
124

*Required Political Science, History, Soci-
ology, and Economics courses satisfy Ma-
jor requirements and 12 hours of General
Education.

**See Prerequisites

MINOR IN POLITICAL SCIENCE

Semester Hours

PSc 120 Government, U.S., State,
Local 3

PSc Electives* 18
21

*Must be chosen with approval of a Politi-
cal Science Advisor.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 2201
Political Science Major

FRESHMAN YEAR

1st Semester

Course	Hours
Gen Ed [PSc 120 Gov't, U.S., State and Local]	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Hist 110 or Hist 120 U.S. History]	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [HPER 101 P. E. Activity]	2
Psy 120 Freshman Orientation	1
	15

2nd Semester

Gen Ed [Econ 180 or 201 Economics]	3
Gen Ed [Eng 102 Composition]	3
Comm 100 Oral Communications	3
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Humanities and Fine Arts]	3
	16

SOPHOMORE YEAR

1st Semester

Gen Ed [Literature]	3
Foreign Language	5
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [HPER 160 Personal Health]	2
	15

2nd Semester

PSc [Upper Division Elective Approved by Advisor]	3
Foreign Language	5
Gen Ed [Social Sciences Elective]	3
Electives	6
	17

JUNIOR YEAR

1st Semester

PSc [Upper Division]	6
Electives	3
[Computer Literacy course selected with advisor's approval]	3
Gen Ed [Humanities and Fine Arts]	3
	15

2nd Semester

PSc [Upper Division]	6
Electives	9
	15

SENIOR YEAR

1st Semester

PSc [Upper Division Electives]	6
Electives [Upper Division]	9
	15

2nd Semester

PSc [Upper Division Elective]	6
Electives [Upper Division]	10
	16

[]Dept. Recommendation.

For additional information contact:
Dr. Donald R. Youst
Office: 133 Library Annex
Phone: Ext. 264

BACHELOR OF ARTS OR SCIENCE

Major Code 7008

Pre-Law

FRESHMAN YEAR

1st Semester

Course	Hours
Gen Ed [Eng 101 Composition]	3
Gen Ed [Hist 110 U. S. History]	3
Gen Ed [Comm 100 Oral Communications]	3
Gen Ed [Soc 110 Sociology]	3
Gen Ed [HPER 101 Physical Activities]	2
Psy 120 Freshman Orientation	1
	15

2nd Semester

Gen Ed [Eng 102 Composition]	3
Gen Ed [Math 131 Finite Math]	3
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Literature]	3
Gen Ed [HPER 160 Personal Health]	2
	15

SOPHOMORE YEAR

1st Semester

Gen Ed [Literature]	3
Gen Ed [Phil 201 Intro to Philosophy]	3
Gen Ed [PSc 120 Gov't, U.S., State, and Local]	3
Gen Ed [Phys 100 Fund of Physical Science]	5
Acct 201 Principles of Accounting I	3
	17

2nd Semester

Psy 100 General Psychology	3
Acct 202 Principles of Accounting II	3
Eng 315 Exposition	3
Comp 105 Intro to Microcomputer Use OR	
Comp 115 Computing I	3
Gen Ed [Econ 201 Macro Economics]	3
	15

JUNIOR YEAR

1st and 2nd Semester*

SENIOR YEAR

1st and 2nd Semester*

*Curriculum should be planned with the pre-law advi-
sor. Major may be selected within almost any academic
discipline emphasizing academic skills which will en-
able the student to perform well on the Law School
Admissions Test and in the rigorous studies in law
school. Major will be determined by the interests and
type of law in which the student plans to specialize.

For additional information contact:
Mrs. Annetta St. Clair
Office: 12 Library Annex
Phone: Ext. 247

SOCIAL SCIENCES**FACULTY:**

Conboy, Head; Gubera, Holman, Markman, Renner, St. Clair, Smith, Tate, Teverow, Yates, Youst

Within the Social Sciences are the disciplines of Geography, History, Paralegal Studies, Political Science, and Sociology. Each discipline focuses on the study of some aspect or aspects of human societies: their history, government, social organization, laws, physical environment and/or cultural heritage. Students who major or minor in the Social Sciences prepare for a variety of graduate programs or careers, for example, in teaching, government, law, historic preservation, business, health and human services. Internships are especially helpful in establishing career objectives and obtaining practical knowledge. Social Sciences students may apply for internships at the George Washington Carver National Monument, the Dorothea B. Hoover Historical Museum, as a Social Work Minor, a Paralegal Studies Minor or a Sociology Major.

To satisfy the college-wide computer literacy requirements, the Social Sciences faculty suggests students complete Comp 105 Intro to Microcomputer Use.

Minors are offered in each of the disciplines within the Social Sciences. Two general Social Sciences minors are also available: Social Sciences Minor and Bachelor of Science in Education with a Social Studies Minor (students qualifying to teach in junior high and middle school).

MINOR IN SOCIAL SCIENCES**Option I**

	Semester Hours
Hist 110 or 120 U.S. History*	3
PSc 120 Gov't. U.S., State, & Local*	3
Geography Elective	3
Sociology Elective (100-200 level)	3
Select four (4) Social Sciences courses at the 300-400 level	12
	24

*Required of all students for General Education.

MINOR IN SOCIAL SCIENCES**OPTION II**

	Semester Hours
Hist 110 or 120 U.S. History*	3
PSc 120 Gov't. U.S., State, & Local*	3
Geography Elective (100-200 level)	3
Sociology Elective (100-200 level)	3
Select six (6) hours at the 300-400 level from each of two of the following:	
Geography, History, Political Science or Sociology	12
	24

*Required of all students for General Education.

MINOR IN SOCIAL STUDIES FOR SECONDARY EDUCATION

A Social Studies minor certifies secondary education majors to teach grades 7 through 9. Students electing this minor must have a social sciences faculty advisor.

	Semester Hours
Hist 110 or Hist 120 United States History	3
PSc 120 Gov't. U.S., State, & Local	3
Additional hours from the following:	18
Hist 110 or Hist 120 United States History	3
Hist 130 or Hist 140 Western Civilization	3
Econ 201 Principles of Economics or other Economics course	3
Geog 211 Regions and Nations	3
Upper Division United States History Elective	3
Upper Division European or Oriental History Elective	3
	24

Suggested Orders of Study**BACHELOR OF SCIENCE IN EDUCATION**

Major Code 0843
Social Studies Major

Sociology Emphasis**FRESHMAN YEAR**

1st Semester	Course	Hours
Gen Ed	[Soc 110 Intro to Sociology]	3
Gen Ed	[Eng 101 Composition]	3
Gen Ed	[Hist 110 or 120, U.S. History]	3
Gen Ed	[Econ 201 (Macro) or other Economics course]	3

Gen Ed	[HPER 101 P.E. Activity]	2
Psy 120	Freshman Orientation	1
		15

2nd Semester

Soc 121	Marriage and the Family	3
Gen Ed	[Eng 102 Composition]	3
Hist 110	U.S. History 1492-1877 or Hist 120	3
Gen Ed	[Math 110 Intro to College Math]	3
Gen Ed	[PSc 120 Gov't, U.S., State and Local]	3
Gen Ed	[HPER 160 Personal Health]	2
		17

SOPHOMORE YEAR**1st Semester**

Geog 211	Regions and Nations	3
Soc 210	Social Problems	3
Hist 130	Western Civilization to 1660	3
Gen Ed	[Humanities and Fine Arts]	3
Psy 110	Psychology of Human Development	5
		17

2nd Semester

Soc	Elective	3
Hist 140	Western Civilization 1660 to Present	3
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[Literature]	3
Psy 302	Exceptional Child	2
		15

JUNIOR YEAR**1st Semester**

Soc 342	Comparative Cultures	3
Geog	Upper Division Elective	3
Hist	Upper Division European or Oriental	3
Psy 310	Educational Psychology	2
Soc	Upper Division Elective	3
PSc	Upper Division Elective	3
		17

2nd Semester

Gen Ed	[Phys 100 Fund of Physical Science]	5
Soc	Upper Division Elective	3
Educ 300	Clinical Experiences	2
Educ 330	Structure of Teaching	2
Educ 331	Microteaching	2
Educ 370	Instructional Media	2
		16

SENIOR YEAR**1st Semester**

Hist	Upper Division U.S. History	6
Gen Ed	[Humanities and Fine Arts]	3
Gen Ed	[Comm 100 Oral Communications]	3
Educ 401	Use of Computer Software in Classroom	2
Educ 422	Reading in Secondary School	2
		16

2nd Semester

Professional Semester **16**

(See Page 117 for specific Education Department Requirements)

[] Department Recommendation

For additional information contact:
Dr. Gail Renner
Office: 15 Library Annex
Phone: Ext. 264

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0843

Social Studies Major (Plan B) Single Teaching Field

Political Science Emphasis

FRESHMAN YEAR**1st Semester**

Course	Hours
Gen Ed [PSc 120 Gov't, U.S., State and Local]	3
Gen Ed [Eng 101 Composition]	3
Psy 110 Psychology of Human Development	5
Gen Ed [Literature]	3
Psy 120 Freshman Orientation	1
	15

2nd Semester

Gen Ed [Hist 110 U.S. History 1492-1877]	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [Econ 201 (Macro) or other Economics course]	3
Gen Ed [Bio 101 General Biology]	4
	16

SOPHOMORE YEAR**1st Semester**

Hist 120 U.S. History 1877-Present	3
Geog 211 Regions and Nations	3
Hist 130 Western Civilization to 1660	3
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [HPER 101 P. E. Activity]	2
	16

2nd Semester

Hist 140 Western Civilization Since 1660	3
Gen Ed [Humanities and Fine Arts]	3
Gen Ed [Soc 110 Intro to Sociology]	3
Psy 302 Exceptional Child	2
Psy 310 Educational Psychology	2
Gen Ed [HPER 160 Personal Health]	2
	15

JUNIOR YEAR**1st Semester**

PSc Upper Division Elective	3
Educ 300 Clinical Experiences	2
Educ 330 Structures of Teaching	2
Educ 331 Microteaching	2
Educ 370 Instructional Media	2
Educ 401 Use of Computer Software in Classroom	2
Geog Upper Division Elective	3
	16

2nd Semester

Hist Upper Division U.S. History	3
Hist Upper Division European or Oriental History	3
PSc Upper Division Elective	3
Gen Ed [Humanities and Fine Arts]	3
Elective	3
	15

SENIOR YEAR**1st Semester**

PSc Upper Division Electives	6
Soc Upper Division Elective	3
Hist Upper Division U.S. History	3
Gen Ed [Comm 100 Oral Communications]	3
Educ 422 Reading in the Secondary School	2
	17

2nd Semester**Course****Professional Semester****16**

(See Page 117 for specific Education Department requirements)

[] Dept. Recommendation.

For additional information contact:

Mrs. Annetta St. Clair
Office: 12 Library Annex
Phone: Ext. 247**SOCIOLOGY****FACULTY:**

Conboy, Head; Gubera, Tate

A bachelor's degree with a major in sociology prepares the student for a variety of occupations and graduate programs. Selecting from three bachelor's degree programs including a Bachelor of Science in Education, the student may choose to pursue many careers, for example, those in human and social services, public safety occupations or teaching. Advanced graduate or professional school training could also be a choice for the student who successfully completes one of the bachelor degree programs. A Sociology minor with an Emphasis in Social Work is offered with classes focusing on human and social services. In addition, a Sociology minor provides students majoring in other areas with special inter-personal, group, and organizational knowledge and skills.

See page (75) for a minor in Social Studies or the Social Studies in Secondary Education minor.

Sociology 110 is a prerequisite to many upper division courses in sociology.

Sociology 110 is an elective course which satisfies 3 credit hours of the General Education requirements for Behavioral and Social Sciences.

BACHELOR OF ARTS WITH A MAJOR IN SOCIOLOGY

Semester Hours

General Education Requirements (see pages 36, 38) 46***43****Computer Literacy Requirement-determined by the Sociology Department****2-3****Foreign Language (two courses in one language)****10****Sociology Requirements****30**

Soc 110 Introduction to Sociology	3
Soc 210 Social Problems**	3
Soc 311 Social Class and Inequality**	3
Soc 342 Comparative Cultures**	3
Soc 421 Sociological Theory**	3
Soc 432 Sociological Research Methods**	3
Sociology Electives (3 upper division)	12

Psy 311 Applied Statistics OR****Math 310 Elementary Statistics** 3****Supporting Area (approved by Sociology advisor)*** 15****Electives **** 20-21 124**

*Required Sociology course satisfies Major requirements and 3 hours of General Education.

**See Prerequisites

***A minor is highly recommended.

****Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE WITH A MAJOR IN SOCIOLOGY**General Education Requirements (see pages 36, 38) 46*****43****Sociology Requirements 36**

Soc 110 Introduction to Sociology	3
Soc 152 Introduction to Anthropology	3
Soc 311 Social Class and Inequality**	3
Soc 362 Deviant Behavior**	3
Soc 421 Sociological Theory**	3
Soc 432 Social Research Methods**	3
Electives in Sociology (Emphasis in Upper Division)	18

Supporting Requirements 12

Comp 105 Intro to Microcomputer Use	3
Psy 325 Computer for the Behavioral Sciences	
OR Other computer course approved by the Sociology Department	3
Psy 311 Applied Statistics for the Behavioral and Natural Sciences**	

OR	
Math 310 Elementary Statistics**	3
Geography Elective	3
Electives	33
	***124

*Required courses in Sociology satisfy Major requirements and 3 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SOCIAL STUDIES

SOCIOLOGY EMPHASIS PLAN B SINGLE TEACHING FIELD

General Education Requirements (see pages 36, 38) 46*	34
Sociology Requirements	21

Soc 110 Introduction to Sociology	
OR	
Soc 152 Introduction to Anthropology	3
Soc 121 Sociology of Family	3
Soc 210 Social Problems**	3
Soc 342 Comparative Cultures**	3
Sociology Electives (6 hours upper division)**	9

Supporting Requirements

Hist 110 U.S. History 1492-1877	3
Hist 120 U.S. History 1877-Present	3
Hist 130 Western Civilization To 1660	3
Hist 140 Western Civilization From 1660	3
Upper Division U.S. History Electives**	6
Upper Division European or Oriental History Elective**	3
Geog 211 Regions and Nations	3
Upper Division Geography Elective	3
PSc 120 Government, U.S., State, Local	3
Upper Division Political Science Elective**	3
Econ 201 Principles of Economics or other Economics course	3

Education Certification Requirements (see pages 117, 118)

37
128

*Required courses in History, Political Science, Sociology and Economics satisfy Major requirements and 12 hours of General Education.

**See Prerequisites

MINOR IN SOCIOLOGY

	Semester Hours
Soc 110 Introduction to Sociology	3
Sociology Electives*	6
Sociology Electives—Upper Division*	12
Total	21

*Select with prior approval of a Sociology advisor.

MINOR IN SOCIOLOGY WITH EMPHASIS IN SOCIAL WORK

	Semester Hours
Soc 110 Introduction to Sociology	3
Soc 121 Sociology of Family	3
Soc 210 Social Problems*	3
Soc 306 Sociology of Aging*	3
Soc 331 Introduction to Social Work*	3
Soc 332 Social Work Practice*	3
Soc 496 Internship*	3
Total	21

*See Prerequisites

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 2008
Sociology Major

FRESHMAN YEAR

1st Semester		Hours
Course		
Gen Ed	[Soc 110 Intro to Sociology]	3
Gen Ed	[Eng 101 Composition]	3
Gen Ed	[Hist 110 or Hist 120 U.S. History]	3
Gen Ed	[Humanities and Fine Arts]	3
Soc	Elective	3
Psy 120	Freshman Orientation	1
		16

2nd Semester		Hours
Soc 121	[Marriage and the Family]	3
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[PSc120 Gov't, U.S., State, and Local]	3
Gen Ed	[Econ 180 or 201 Economics]	3
Gen Ed	[Bio 121 General Zoology]	4
		16

SOPHOMORE YEAR

1st Semester		
Soc 210	Social Problems*	3
Foreign Language		5
Gen Ed	[Humanities and Fine Arts]	3
Gen Ed	[Math 110 Intro to College Math]	3
Gen Ed	[Comm 100 Oral Communications]	3
		17

2nd Semester		
Elective		3
Foreign Language		5
Gen Ed	[Phys 100 Fund of Physical Science]	5
Gen Ed	[HPER 101 P.E. Activity]	2
		15

JUNIOR YEAR

1st Semester		
Soc 311	Social Class and Inequality*	3
Soc 342	Comparative Cultures*	3
Gen Ed	[Literature]	3
Psy 311	Applied Statistics* (Psy 311 or Math 310)	3
Gen Ed	[HPER 160 Personal Health]	2
		14

2nd Semester		
Supporting Area [A minor is suggested]		6
Comp 105	Intro to Microcomputer Use	3
Electives		7
		16

SENIOR YEAR

1st Semester		
Soc 421	Sociological Theory*	3
Soc	[Upper Division Elective]	3
Supporting Area [A minor is suggested]		6
Elective		3
		15

2nd Semester		
Soc 432	Research Methods*	3
Supporting Area [A minor is suggested]		6
Electives		6
		15

*Prerequisites

[] Dept. Recommendation.

The student is to select a supporting area in consultation with a Sociology advisor.

For additional information contact:

Dr. Conrad Gubera
Office: 10 Library Annex
Phone: Ext. 287
or
Dr. Judith Conboy
Office: 14 Library Annex
Phone: Ext. 265

ARTS & SCIENCES

BACHELOR OF SCIENCE

Major Code 2220
Sociology Major

FRESHMAN YEAR

1st Semester		Hours
Course		
Gen Ed	[Soc 110 Intro to Sociology]	3
Gen Ed	[Eng 101 Composition]	3
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[Econ 180 or 201 Economics]	3
Elective		3
Psy 120	Freshman Orientation	1
		16

2nd Semester

Soc 152	Anthropology	3
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[PSc 120 Gov't, U.S., State, and Local]	3
Gen Ed	[Comm 100 Oral Communications]	3
Gen Ed	[Bio 101 General Biology]	4
		16

SOPHOMORE YEAR

1st Semester		Hours
Soc	Elective with approval of advisor	3
Gen Ed	[Math 131 Finite Math]	3
Gen Ed	[Literature]	3
Geog*		3
Gen Ed	[HPER 101 P. E. Activity]	2
Electives		3
		17

2nd Semester

Soc	Elective	3
Gen Ed	[Phys 100 Fund of Physical Science]	5
Gen Ed	[Humanities and Fine Arts]	3
Gen Ed	[Social Sciences Elective]	3
Gen Ed	[HPER 160 Personal Health]	2
		16

JUNIOR YEAR

1st Semester		Hours
Soc 311	Social Class and Inequality**	3
Soc	Elective	3
Comp 105	Intro to Microcomputer Use	3
Gen Ed	[Humanities and Fine Arts]	3
Elective	[A minor is suggested]	3
		15

2nd Semester

Soc 362	Deviant Behavior**	3
Soc	Elective	3
Electives	[A minor is suggested]	6
Applied Statistics**	(Psy 311 or Math 310)	3
		15

SENIOR YEAR

1st Semester		Hours
Soc 421	Sociological Theory**	3
Soc	Elective	3
Elective	[A minor is suggested]	6
Psy 325	[Computers in the Behavioral Sciences]	3
		15

2nd Semester

Soc 432	Sociological Research Methods**	3
Soc	Elective	3
Electives	[A minor is suggested]	9
		15

*Select from Geography 211, 311, or 322.

**Prerequisites

[] Dept. Recommendation.

The student is to select a minor in consultation with a Sociology advisor.

For additional information contact:
Dr. Conrad Gubera or Dr. David Tate
Office: 10 Library Annex
Phone: Ext. 287

THEATRE

FACULTY:

M. Brietzke, Head; Bowman, Claussen, Hunt

Specialized theatre training provides career opportunities in:

Theatre Performance
Television Production
T.V., Film & Radio Commercials
Public Relations
Stage Management
Graduate Study
Executive Leadership
Lighting Design
Recreational Directorship
Technical Theatre
Personnel Management
Government Service
Teaching
Law

Of MSSC Theatre graduates who sought employment, 87% are working professionally in one of the above career areas.

Factors Unique to Theatre Department:

1. Hands-on experience for students in acting, house and stage management, directing, and technical design-execution.
2. A children's theatre play program performed for over 100,000 people from four-state area.
3. Production participation open to all MSSC students and faculty.
4. Entire faculty practicing professionals in their teaching specialty.
5. Opportunity for students and faculty to produce and present programs for community, business organizations, public schools.
6. A modern, well-equipped, mainstage theatre as well as a studio theatre.

The Theatre Department offers two degrees, a Bachelor of Arts with a Major in Theatre and a Bachelor of Science in

Education with a Major in Theatre/Speech Plan B. A minor in Theatre is offered as well.

It is recommended that students pursuing a degree in theatre meet with their faculty advisor at least twice each semester, once in addition to planning their next semester's schedule. More detailed information is available in the Theatre Office, Room 243, of Taylor Performing Arts Center.

General Education requirement in Area 2 Humanities and Fine Arts is fulfilled by Theatre Appreciation or a theatre theory course.

BACHELOR OF ARTS WITH A MAJOR IN THEATRE

Semester Hours

General Education Requirements
(see pages 36, 38) 46* **37**

Computer Literacy Requirement—determined by the Theatre Department **2-3**

Foreign Language (two courses in one language) **10**

Theatre Requirements **46**

Th 142 Theatre Technology	3
Th 231 Speech for Stage	1
Th 232 Costume Technology	1
Th 233 Stage Make-up	1
Th 241 Acting I	3
Th 331 History of the Theatre	3
Th 332 History of the Theatre	3
Th 341 Acting II**	3
Th 351 Directing I	3
Th 362 Stage Costume & Design	3
Th 372 Directing II	3
Th 422 Acting III** or	
Th 431 Creative Dramatics	3
Th 441 Stage Design	3
Th 121, 122, 221, 222 Theatre Laboratory (select two)	4
Theatre Electives	9

Supporting Requirements **9**

Art 100 Art Composition OR	
Art 130 Beginning Drawing	3
Art History (upper division)	3
Hist 130 or 140 Western Civilization	3

Electives **19-20**
124***

*Required Theatre, Art, and History courses satisfy Major requirements and 9 hours of

MINOR IN THEATRE

	Semester	Hours
Th 121, 122, 221, or 222 Theatre Laboratory (select two)	4	
Th 110 Theatre Appreciation	3	
Choose two from the following:	2	
Th 231 Speech for the Stage	1	
Th 232 Costume Technology	1	
Th 233 Stage Make-up	1	
Four courses from the following:	12*	
Th 142 Theatre Technology	3	
Th 241 Acting I	3	
Th 298 Explorations in Theatre (when offered)	3	
Th 320 Stage Lighting**	3	
Th 331 Theatre History	3	
Th 332 Theatre History	3	
Th 341 Acting II**	3	
Th 351 Directing I	3	
Th 362 Stage Costume & Design	3	
Th 372 Directing II	3	
Th 422 Acting III**	3	
Th 441 Stage Design (Theatre Technology)	3	
	21	

*All courses must be chosen with an advisor's approval and 6 hours must be upper division.
 **See Prerequisites

Suggested Orders of Study

BACHELOR OF ARTS

Major code 1007
 Theatre Major

FRESHMAN YEAR

Course	Hours
1st Semester	
Th 121 OR 221 Theatre Lab	2
Th 241 Acting I	3
Gen Ed [Comm 100 or 131]	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [HPER 101 or equivalent]	2
Psy 120 Freshman Orientation	1
	17
2nd Semester	
Th 122 OR 222 Theatre Lab	2
Th 142 Theatre Technology	3
Gen Ed [Biological Science]	4
Gen Ed [Eng 102 Composition]	3
Gen Ed [PSc 120 Gov't. U.S., State, Local]	3
Gen Ed [HPER 160 Personal Health]	2
	17

SOPHOMORE YEAR

1st Semester	
Elective [Th 121 OR Th 221 Theatre Lab]	2
Gen Ed [Foreign Language]	5
Gen Ed [Math 110 or equivalent]	3
Gen Ed [Psychology]	3
Elective [Theatre or English]	3
	16
2nd Semester	
Th 231, 232, 233	3
Th 122 OR Th 222 Theatre Lab	2
Gen Ed [Foreign Language]	5
Gen Ed [Physical Science]	5
Computer Literacy Requirement determined by the Theatre Department	2-3
	17-18

JUNIOR YEAR

1st Semester	
Th 351 Directing I	3
Th 341 Acting II*	3
Th 441 Stage Design	3
Hist 130 or 140 Western Civilization	3
Art 100 or Art 130	3
	15
2nd Semester	
Elective [Th 212 Oral Interpretation]	3
Th 362 Stage Costume	3
Th 372 Directing II	3
Art History 301, 302, 303, 304	3
Elective [English Literature]	3
	15

SENIOR YEAR

1st Semester	
Th 331 History of Theatre	3
Th 431 [Creative Dramatics]	3
Elective	3
Elective [Eng 450 Shakespeare or Eng 360 20th Century Drama]	3
Gen Ed [Econ 180 American Economic System]	3
	15
2nd Semester	
Th 332 History of Theatre	3
Th 442 Acting III* of Th 431	3
Upper Division Elective	2
Upper Division Elective	3
Elective [Acct 201 or Econ 202 or Bus 101]	3
	14

Supporting Electives:
 Accounting, Art, Business, Communications, English

*See Prerequisites

[] Department Recommendation

For additional information contact:
 Mr. Milton W. Brietzke
 Office: 243 Taylor Auditorium
 Phone: Ext. 248

General Education, but do not satisfy the U.S. History requirement. 3 hours in Area 4.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours. A minor in another area is recommended.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN THEATRE /SPEECH COMMUNICATIONS PLAN B SINGLE TEACHING FIELD

General Education Requirements (see pages 36, 38) 46* 40

Computer Literacy Requirement—determined by the Theatre Department 2-3

Theatre Requirements 17

Th 121, 122, 221 or 222 Theatre Laboratory	2
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 331 History of the Theatre	3
Th 332 History of the Theatre	3
Th 351 Directing I	3

Communications Requirements 12

Comm 101 Introduction to Human Communications	3
Comm 215 Interpersonal Communication**	3
Comm 304 Small Group Communication	3
Comm 315 Argumentation & Debate	3

Theatre or Speech Communication Electives*** 15

Education Certification Requirements (see pages 117, 118) 37

Electives 2-3 124

*Required courses in Theatre and Psychology satisfy Major requirements and 6 hours of General Education.

**See Prerequisites

***Must be approved in advance by the student's advisor who must be selected from either the area of speech communication or theatre.

ARTS & SCIENCES

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0844
Speech and Theatre
Theatre Emphasis

PLAN B SINGLE TEACHING FIELD

FRESHMAN YEAR

Course	Hours
Th 121 OR Th 221 Theatre Lab	2
Gen Ed [Humanities/Fine Arts]	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Comm 100 or Comm 131]	3
Gen Ed [History 110 or 120 U.S. History]	3
Gen Ed [HPER 101 or equivalent]	2
Psy 120 Freshman Orientation	1
	17

2nd Semester

Th 122 OR 222 Theatre Lab	2
Gen Ed [English 102 Composition]	3
Gen Ed [Biological Science]	4
Psy 110 Human Growth & Development	5
Th 212 Oral Interpretation	3
	17

SOPHOMORE YEAR

Course	Hours
Th 241 Acting I or Th 341 Acting II	3
Th 232, 233 Costume Tech and Stage Make-up	2
Gen Ed [Math 110 or equivalent]	3
Gen Ed [PSc 120 Govt. U.S., State, & Local]	3
Comm 101 Intro to Human Communication	3
Educ 370 Instructional Media	2
	16

2nd Semester

Th 142 Theatre Technology	3
Gen Ed [Physical Science or equivalent]	5
Psy 310 Educational Psychology	2
Gen Ed [Eng 271 or 272 English Literature]	3
Educ 302 Exceptional Child	2
Gen Ed [HPER 160 Personal Health]	2
	17

JUNIOR YEAR

Course	Hours
1st Semester	
Educ 300 Clinical Experiences	2
Educ 330 Structures of Teaching Secondary	2
Th 352 Directing I	3
Th 331 History of Theatre	3
Th 341 Acting II or Th 241 Acting I	3
Comm 215 Interpersonal Communication	3
	16

2nd Semester

Th 361 Stage Costume	3
Th 332 History of Theatre	3
Th 372 Directing II	3
Elective [Eng 315 Exposition]	3
Computer Literacy Requirement determined by the Theatre Department	2-3
Educ 331 Micro Teaching	2
	16-17

SENIOR YEAR

Course	Hours
1st Semester	
Comm 304 Small Group Communications	3
Th 441 Stage Design	3
Gen Ed [Econ 180 American Economic System]	3

Educ 422 Reading in Secondary School	2
Comm 315 Argumentation and Debate	3
	14

2nd Semester

Educ 342 Teaching Methods Speech/Theatre	2
Educ 402 Foundations of Education	2
Educ 432 Critical Issues	2
Educ 412, 420, 423, Psy 412 (Select one)	2
Educ 462 Student Teaching	8
	16

Supporting Electives:

Accounting, Art, Business, Communications, English

*See Prerequisites

[] Department Recommendation

For additional information contact:

Mr. Milton W. Brietzke
Office: 243 Taylor Auditorium
Phone: Ext. 248

SCHOOL OF ARTS AND SCIENCES

COURSE DESCRIPTIONS

ART (Art)

Art Composition (F and/or S)

50.0799-100 3 hrs. cr.
Introduction to studio projects using fundamental techniques, media, and theories. Specially recommended for meeting General Education requirements.

Art Appreciation (F and/or S)

50.0703-110 3 hrs. cr.
A survey designed to increase appreciation of the visual arts through readings, slide lectures, library research, and visits to the Spiva Art Center. Development of the cognitive and critical processes as they relate to the visual arts are emphasized. Specially recommended toward meeting General Education requirements.

Beginning Ceramics (F and/or S)

50.0202-120 3 hrs. cr.
Methods and techniques of throwing and/or hand building with application of glazing and firing. 6 studio hrs. per week. Lab fee required.

Beginning Drawing (F and/or S)

50.0705-130 3 hrs. cr.
Free-hand drawing projects using art media and techniques applied by master artists. 6 studio hrs. per week. Lab fee required. Prerequisite: Art 100 or instructor's approval.

Introduction to Design (F and/or S)

50.0401-132 3 hrs. cr.
Foundation studio projects using art principles and elements of structure. Primarily a two-dimensional design course. 6 studio hrs. per week.

Arts & Crafts (F and/or S)

50.0299-200 3 hrs. cr.
Basic crafts survey exploring materials and processes of traditional and contemporary handicrafts. Required for Special Education. Specially recommended toward meeting General Education requirements.

Beginning Jewelry Design/Metalsmithing (F and/or S)

50.0206-205 3 hrs. cr.
Creative exploration of design fabrications, casting, and forging processes. 6 studio hrs. per week. Lab fee required. Prerequisite: Art 100 and/or Art 132.

Beginning Sculpture (F and/or S)

50.0709-211 3 hrs. cr.
Exploration of forming methods involving wood, clay, plaster, and mixed media with emphasis

on additive and subtractive techniques. 6 studio hrs. per week. Lab fee required. Prerequisite: Art 132 and/or Art 230.

Art Education (F and/or S)

50.1302-220 3 hrs. cr.
Creative art activities using media and processes with emphasis on methods of instructing art in elementary school. Required for both Elementary Education majors and Secondary Art Education majors.

Basic Form (F and/or S)

50.0401-230 3 hrs. cr.
Studio exploration of the relationships of parts to form. Projects include two and three dimensional problems. 6 studio hrs. per week. Lab fee required. Prerequisite: Art 100

Beginning Painting (F and/or S)

50.0708-232 3 hrs. cr.
Procedures, techniques, and basic fundamentals of painting with oil, acrylic, watercolor, egg tempera, and mixed media. 6 studio hrs. per week. Lab fee required. Prerequisite: Art 100 and Art 130.

Advanced Drawing (F and/or S)

50.0705-300 3 hrs. cr.
Self-exploration of various drawing elements including composition, structure, and aesthetics. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hours. Prerequisite: Art 100 and Art 130 or the approval of the instructor.

Art History, Prehistoric Through Gothic (F and/or S)

50.0703-301 3 hrs. cr.
Survey of the visual arts from the Ancient World to the Gothic Age in Europe.

Art History, Renaissance Through Baroque (F and/or S)

50.0703-302 3 hrs. cr.
Comparative study of the visual arts of Southern and Northern Europe from the early Renaissance through the Baroque and Rococo periods.

Art History, 19th Century (F and/or S)

50.0703-303 3 hrs. cr.
Survey of Western Art in Europe and the United States from Neo-Classicism and Romanticism to Post-Impressionism.

Art History, 20th Century (F and/or S)

50.0703-304 3 hrs. cr.
Study of the mainstreams of Western Art in Europe and the United States including its sources and influences. Emphasis on the succession of modernist art movements in France and Germany from 1900 to 1945 and in the United States from 1945 to present.

Seminar (F and/or S)

50.0799-305 3 hrs. cr.
Student art problems investigated with group participation. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 21 credit hours in art. Strongly recommended by the art faculty.

Transparent Watercolor (F and/or S)

50.0708-310 3 hrs. cr.
Techniques and aesthetic processes of watercolor painting using landscape, figures, and still lifes as subjects. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hours. Prerequisite: Art 130 or permission of the instructor.

Beginning Printmaking (F and/or S)

50.0799-312 3 hrs. cr.
Procedures, techniques, and fundamentals of the Intaglio process; etching, drypoint, aquatint, softground, and mixed media including color etching. Emphasis on drawing and design. 6 studio hrs. per week. Lab fee required.

Advanced Sculpture (F and/or S)

50.0709-321 3 hrs. cr.
An extension of Beginning Sculpture with an introduction to the lost wax technique of casting bronze sculpture. Each student is permitted to cast one piece per semester. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hours. Prerequisite: Art 211.

Advanced Sculpture (F and/or S)

50.0709-322 3 hrs. cr.
Continuation of Art 321. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hours.

Graphic Communications I (F)

50.0402-325 3 hrs. cr.
Introduction to commercial art with an emphasis on the recognition, duplication, function, and aesthetic use of typography/pictorial images as a visual language. Includes lettering, layout, and type/image relationships. 6 studio hrs. per week. Lab fee required. Prerequisite: Art 100, Art 130, and Art 132.

Advanced Jewelry Design/Metalsmithing (F and/or S)

50.0206-330 3 hrs. cr.
Exploration of advanced methods and techniques of complex forms for jewelry and metalsmithing design. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 205.

Graphic Communication II (S)

50.0402-350 3 hrs. cr.
Continued study of Graphic Communications I with emphasis on the design and preparation

of two-dimensional projects for printing and/or video reproduction. Includes an introduction to the development of an individual portfolio. 6 studio hrs. per week. Lab fee required. Prerequisite: Art 325

Advanced Painting (F and/or S)

50.0708-401 3 hrs. cr.
Students select an individual problem for self-development using a variety of media. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 130 and Art 232.

Advanced Ceramics (F and/or S)

50.0202-407 3 hrs. cr.
Advanced methods, techniques, and procedures of pottery making and design in clay. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 120.

Special Projects in Art I (F and/or S)

50.0799-420 3 hrs. cr.
Advanced studio survey selected by the student in a particular area of art. Students attend a regularly scheduled course of related content and complete an independent special project approved by the instructor. Requirements: (1) an exhibit of the special project two weeks before the end of the semester and (2) a formal paper documenting the special project(s). Prerequisite: Completion of advanced courses and written approval of the instructor. Lab fee required. May be repeated for a total of 6 credit hrs.

Graphic Communications III (F)

50.0402-425 3 hrs. cr.
Continued study of Graphic Communications II with emphasis on the design and preparation of three-dimensional projects for printing and/or video reproduction. Includes an introduction to computer-aided graphic techniques and equipment. 6 studio hrs. per week. Lab fee required. Prerequisite: Art 350.

Life Drawing (F and/or S)

50.0708-421 3 hrs. cr.
Drawing and/or painting the human figure with emphasis on anatomy, structure, and form. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hours. Prerequisite: Art 130 and Art 232.

Advanced Printmaking (F and/or S)

50.0799-430 3 hrs. cr.
Advanced Intaglio techniques and color printing. Advanced studio methods for color registration, transfer and drawing, drypoint, mezzotint, etching, engraving, and mixed media. Emphasis on design, drawing, concept, technical proficiency, and presentation. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hours. Prerequisite: Art 312 or approval of the instructor.

peated for a total of 6 credit hours. Prerequisite: Art 312 or approval of the instructor.

Special Projects in Art II (F and/or S)

50.0799-440 3 hrs. cr.
Same as Art 420. May be repeated for a total of 6 credit hrs.

Graphic Communications IV (S)

50.0403-450 3 hrs. cr.
Study and techniques of illustration for printing and/or video reproduction. Includes advanced projects with computer-aided graphic techniques and equipment. Completion of an individual portfolio is required. 6 studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 425.

Senior Exhibit (F)

50.0799-490 2 hrs. cr.
A course offered during the Fall semester each academic year to prepare senior art majors for their exhibit which is normally scheduled during May in the Spiva Art Center. 1 hr. of lecture and 2 hrs. of studio per week. Prerequisite: Senior standing and permission of the Junior Review Committee.

BIOLOGY (Bio)

General Biology (F,S)

26.0101-101 4 hrs. cr.
A one semester general treatment of the unifying principles of living things including cell structure and function, metabolism, genetics, evolution, and ecology. Emphasis on these biological principles as they relate to humans. Three lectures and one 2 hr. lab per week. Fulfills general education requirement.

Man and Environment (F,S)

26.0101-110 4 hrs. cr.
A survey of environmental aspects of biology including pollution, land use, population energy, and organismic responses to these problems. Cellular, systemic, and genetic mechanisms are included. Three lectures and one 2 hr. lab per week. Fulfills general education requirement.

Botanical Survey (F,S)

26.0301-112 3 hrs. cr.
The morphology, physiology, and classification of plants with an emphasis upon the diversity of the plant world. Two lectures and one 2 hr. lab per week. Prerequisite: Bio 101.

General Zoology (F,S)

26.0701-121 4 hrs. cr.
Introductory study of basic principles of cytology, metabolism, and genetics. A brief survey of those invertebrates that directly relate to man. Emphasis on medical terminology as it relates to the anatomy of man in preparation for Bio

221. Three lectures and one 2 hr. lab per week. Fulfills general education requirement.

Zoological Survey (F,S)

26.0701-122 3 hrs. cr.
Morphology, physiology, and classification of animals with an emphasis upon the diversity of the animal world. Two lectures and one 2 hr. lab per week. Prerequisite: Bio 101.

Animal Science

26.0101-131 5 hrs. cr.
Fundamental principles of animal science at an introductory level. Includes kinds of livestock, related anatomy and physiology, genetics, and nutrition. Includes discussion of livestock contributions to human use and needs. Three lectures and two 2 hr. labs per week.

General Physiology (F,S)

26.0401-210 4 hrs. cr.
Biological function at the cellular and molecular levels. Study of physiological characteristics of both plant and animal cells. Three lectures and one 2 hr. lab per week. Prerequisite: Bio 101, 112, 122, Chem 102.

Microbiology (S)

26.0501-211 5 hrs. cr.
Structure and function of microorganisms with emphasis on classification, the role of microorganisms in the environment, and the use of microorganisms in modern biological research. Three lectures and two 2 hr. labs per week. Credit toward the biology major may include Bio 211 or 231 but not both. Prerequisite: Bio 101.

Human Anatomy and Physiology (F,S)

26.0601-221 5 hrs. cr.
Structure and function of the human body used to study both the arrangement of organs and coordination of body systems. Three lectures and two 2 hr. labs per week. Credit toward the biology major may include Bio 221 or 306 but not both. Prerequisite: Bio 121 or 101 and 122.

Fundamentals of Medical Microbiology (F)

26.0501-231 5 hrs. cr.
For students interested in the paramedical professions. Topics include the general principles of microbiology, immunology, and the identification of microorganisms. Three lectures and two 2 hr. labs per week. Prerequisite: 1 course of a biological science. Credit toward the biology major may include either Bio 211 or 231 but not both.

Radiation Biology (S)

26.0610-240 3 hrs. cr.
Types of radiation affecting man, the uses of radiation, and methods for monitoring radiation levels. Special emphasis on the types of physiological damage that occur to tissues following

ionizing radiation. Three lectures per week. Prerequisites: Bio 221 and five hours of chemistry or acceptance into the School of Radiologic Technology

Animal Nutrition

26.0609-261 3 hrs. cr.
Fundamental principles of animal nutrition and practical problems of feeding livestock. Three lectures per week. Prerequisite: Bio 131.

Principles of Plant Propagation

26.0101-271 3 hrs. cr.
A comprehensive study of the principles of plant propagation emphasizing anatomy and physiology as well as principles controlling plant growth. Mastery of technical skills such as budding, grafting, and making cuttings. Two lectures and one 2 hr. lab per week.

Selected Topics in Biology

26.0101.298 1-8 hrs. cr.
Specific topic or topics not normally included in another course. Prerequisite: Bio 101, 112, and 122.

Genetics (F,S)

26.0703-305 5 hrs. cr.
Introduction to the principles of heredity, gene structure, expression, and regulation. Emphasis on cytological and molecular approach to gene action, linkage, recombination, and other genetic mechanisms. Lab exercises will illustrate genetic principles and techniques used in modern genetic research. Three lectures and one 2 hr. lab per week. Prerequisite: Bio 101. Recommended courses: Bio 221 or 231, and Chem 101.

Human Physiology and Anatomy (F,S)

26.0601-306 5 hrs. cr.
For students working on a Bachelor of Science degree. Structure and function of the human body will be used to study both the arrangement or organs and coordination of body systems. Lectures and labs will coincide with Bio. 221. Three lectures and two 2 hr. labs per week. Credit toward the biology major may include Bio 221 or 306 but not both. Prerequisite: Bio 121 or 101 and 122.

Pathophysiology (F)

26.0704-308 4 hrs. cr.
Study of altered physiological states, the cellular manifestations and causes of disease, and adaptation to the alterations. Three lectures and one 3 hour lab per week. Prerequisite: Bio 221 or 306 and Bio 211 or 231.

Field Biology

26.0603-310 2 hrs. cr.
Appreciation and understanding of the local flora and fauna, and information pertinent to preparation and preservation of specimens for

laboratory use. One lecture and one 2 hr. lab per week. Prerequisite: Bio 101 or permission of instructor. (Does not count toward any biology major.)

Environmental Biology (F)

26.0603-312 4 hrs. cr.
Environmental factors and their interactions with living things. Emphasis on human ecology and wise natural resource utilization. Three lectures and one 2 hr. lab per week. Prerequisite: Phys 100, Bio 101, Math 110, or permission of the instructor.

Economic Botany (F)

26.0301-316 3 hrs. cr.
Economic uses of plants, and present and possible future value of lower plants. Emphasis on the economic aspects of higher plants from an agricultural, horticultural, and crop selection viewpoint as well as from a pharmacological, textile usage, etc. view. Three lectures a week. Prerequisite: Bio 101 or equivalent.

Cell Biology (S,Odd)

26.0401-318 4 hrs. cr.
Detailed cell structure and function with emphasis on both cytological anatomy and physiology. Three lectures and one 2 hr. lab per week. Prerequisite: Bio 112, 122, 210, 305, and Chem 301 or consent of the instructor.

Taxonomy of Flowering Plants (S)

26.0301-322 4 hrs. cr.
Relationships among selected plant groups with emphasis on classification and descriptions of taxa, nomenclature, and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora emphasized. Two lectures and two 2 hr. labs per week. Prerequisites: Bio 101 and 112.

Comparative Vertebrate Anatomy (F)

26.0704-331 5 hrs. cr.
Fundamental course designed to enhance understanding and appreciation of the structure and adaptations of vertebrates, including man. Emphasis on evolution and the relationship between structure and function. Includes certain non-traditional topics, such as quantitative studies of allometry, sexual dimorphism, biomechanics, and individual variation. Two lectures and two 3 hr. labs per week. Prerequisites: Bio 101 or 121, and 122.

Introduction to Entomology (F,Even)

26.0702-332 3 hrs. cr.
Collecting methods, taxonomy, life history, morphology, and evolution of insects. Prerequisites: Bio 101 and 122. Two lectures and one 3 hr. lab per week.

Microtechnique (Demand)

26.0501-342 2 hrs. cr.
Principles of preserving, fixing, staining, and mounting biological materials. Prerequisites: Bio 101 and 121. Two 2 hr. lab per week.

Ichthyology (S,Even)

26.0701-344 3 hrs. cr.
Investigation of fishes of North America with special emphasis on local species. Natural history, morphology, and function of fishes in relation to man. Prerequisite: Bio 122 or equivalent.

Biomes (S)

26.0603-352 2 hrs. cr.
Interactions between plants and animals in a variety of habitats. Since an extended field trip comprises a significant portion of this course, travel expenses must be paid by the student during registration. Prerequisite: Bio 101, 112, 122 and permission of the instructor.

Parasitology (F,Even)

26.0601-361 4 hrs. cr.
A systematic investigation of the numerous parasites found in vertebrates. Emphasis on life cycles of parasites which infect man. Three lectures and one 3 hr. lab per week. Prerequisite: Bio 101, 122.

Virology (F,Odd)

26.0501-362 3 hrs. cr.
Structure and life cycles of bacterial, animal, and plant viruses, their significance in disease (including cancer), and the use of viruses in modern biological research. Three lectures per week. Prerequisites: Bio 211 or 231, and 305.

Environmental Health (S)

26.0704-370 4 hrs. cr.
Contemporary environmental health problems and public protection measures including public disease prevention, vector control, etc. Three lectures and one 2 hr. lab per week. Prerequisite: Bio 211 or 231, Junior standing in science or permission of instructor.

Plant Physiology

26.0307-371 4 hrs. cr.
Introduction to plant physiology emphasizing a review of the cell, plant biochemistry, regulation of plant development, and factors producing physiological stress in the plant world. Three lectures and one 2 hr. lab per week. Prerequisite: Bio 210.

Ornithology (S,Odd)

26.0701-381 3 hrs. cr.
Anatomy, physiology, identification, and natural history of birds, with emphasis on local forms. Two lectures and one 2 hr. lab per week. Prerequisite: One introductory course in biology or permission of instructor.

General Ecology (S)

26.0603-402 4 hrs. cr.
Plant and animal communities and their interaction within the environment. Emphasis on the flora and fauna of Southwest Missouri. Consideration of soils, climate and other major environmental factors responsible for the distribution and association of plants and animals. Three lectures and one 3 hr. lab per week. Prerequisite: Bio 101, 122, and 322, or consent of the instructor.

Animal Physiology (F,Even)

26.0706-431 5 hrs. cr.
Comparative and ecological approach to the physiology of animals with emphasis on laboratory studies with local species. Three lectures and two 2 hr. labs per week. Prerequisite: 10 hrs. of biology; Bio 210, 331, and Chem 300 recommended.

Histology (S,Even)

26.0606-433 4 hrs. cr.
Microscopic structure of animal tissues and organs with special emphasis on mammalian tissue. Three lectures and one 3 hr. lab per week. Prerequisite: 10 hours of zoology or consent of instructor.

Invertebrate Zoology (F,Odd)

26.0706-422 5 hrs. cr.
Classification, morphology, physiology, development, and evolution of the classes of invertebrate animals. Three lectures and two 2 hr. labs per week. Prerequisite: Bio 122.

Internship in Biology

26.999-450 1-8 hrs. cr.
In conference with a departmental board a half semester in advance, the student shall elect to work and observe in any area of applied biology in which on-the-job experience would be beneficial to the student's training. Prerequisites: at least second semester junior standing in Biology with minimum of 20 Biology hours and 20 senior hours.

Immunology (S,Even)

26.0704-456 3 hrs. cr.
Cellular and molecular basis of immune response in vertebrates, including the role of immune systems in disease prevention, hypersensitivity, transplantation immunity, and regulation of immune response. Recommended for students interested in careers in cellular and molecular biology and medicine. Three lectures per week. Prerequisites: Bio 211 or 231, and 305.

Embryology (S,Odd)

26.0604-462 5 hrs. cr.
Detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures and two 2 hr. labs per week. Prerequisite: Bio 122 and/or 331.

Aquatic Biology

26.0101-481 4 hrs. cr.
Analysis of components of freshwater systems, both impoundment and stream environments. Prerequisite: Bio 122 or equivalent.

Seminar (F,S)

26.9999-490 1 hr. cr.
Faculty supervised discussion group concerned with reviews and reports covering current topics in biology. Faculty members, as well as students, will present reviews in their various areas of interest. One meeting per week. Prerequisites: Primarily for biology majors of junior standing or interested students with at least 15 hours of biological science.

Seminar in Biology (F,S)

26.9999-498 1-3 hrs. cr.
For upper division majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of biology not covered in other courses. Prerequisite: Junior standing, 20 hours in biology, and a minimum GPA of 2.5 in biology, or permission of instructor.

Problems in Biology (F,S)

26.9999-499 1-3 hrs. cr.
Individual work under the supervision of a staff member, with credit and hours to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, department head, and school dean. Prerequisite: A minimum GPA of 3.0 in 20 hours of biology.

Biology Majors may take Bio 131, 261, 271 or 310, but should be advised that these courses will not count toward semester hour total for any of the departmental degrees.

CHEMISTRY (Chem)

Introductory Chemistry (F,S)

40.0501-100 5 hrs. cr.
Basic principles and practical application of inorganic, organic, and biochemistry which satisfies either the general education science requirement or the needs of students in certain health-related programs. Three lectures, one 3-hr. laboratory, and one recitation session per week. Prerequisite: Math 30 or satisfactory score on Mathematics Placement Test.

General Chemistry I (F,S)

40.0501-101 5 hrs. cr.
Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of these changes. Three lectures, one 3-hr. laboratory, and one recitation session per week. Prerequisite or corequisite: Math 140 or higher level math course.

General Chemistry II (F,S)

40.0501-102 5 hrs. cr.
Continuation of Chem. 101. Emphasis on the dynamics and thermodynamics of chemical processes and on the properties and reactions of analogous groups of cations and anions. Three lectures, one 3-hr. laboratory, and one recitation session per week. Prerequisites: Chem. 101 with a minimum grade of C or permission of instructor and Math 140 or higher level math course.

Analytical Chemistry I (F)

40.0502-201 5 hrs. cr.
Standard first course in quantitative chemical analysis. Lecture and laboratory include volumetric, gravimetric, potentiometric and spectrophotometric methods of analysis. Emphasis on interpretation of experimental data. This course, when followed by Chem. 421, constitutes a year's sequence in analytical chemistry. Three lecture and two 3-hour labs per week. Prerequisite: Chem 102.

Selected Topics in Chemistry (F,S)

40.0599-298 1-3 hrs. cr.
Special topics in chemistry not normally included in other courses. Prerequisite: Chem 201 or permission of instructor.

Intro to Modern Organic Chemistry (S)

40.0504-300 5 hrs. cr.
Principles of organic chemistry—nomenclature, structure, properties, stereochemistry, reactions—using functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as background for other courses in technical or professional training programs. Three lectures, one 3-hour lab, and one recitation session per week. Prerequisite: Chem 102.

Organic Chemistry I (F)

40.0504-301 5 hrs. cr.
Aliphatic and aromatic compounds, their nomenclature, properties, reactions, and stereochemistry. The functional group approach is used; study of hydrocarbons (saturated, unsaturated, aromatic) and their derivatives. Includes brief introduction to organic spectroscopy. Three lectures, one 3-hour lab, and one recitation session per week. Prerequisite: Chem 102.

Organic Chemistry II (S)

40.0504-302 5 hrs. cr.
A continuation of Chem 301. The functional group approach is continued with alcohols, aldehydes and ketones, carboxylic acids, amines and polyfunctional compounds. Employment of a mechanistic treatment of substitution, elimination, addition, and free radical reaction. Emphasis on organic spectroscopy in lecture and laboratory. Three lectures, one 3-hr. laboratory, and one recitation session per week. Prerequisite: Chem 301.

Biochemistry (F)

26.0201-351 4 hrs. cr.
Fundamental concepts of the chemistry of lipids, carbohydrates, and proteins with emphasis on physiological aspects of these compounds. Presentation of the interrelationship of these compounds in living systems through bioenergetics and reaction pathways. Three lectures and one 3-hr. lab per week. Prerequisite: Chem 300 or 302.

Physical Chemistry I (F,Odd)

40.0506-401 4 hrs. cr.
Development of laws of thermodynamics to explain the relationships between properties of systems at equilibrium. Ideas of thermodynamics are first applied to equilibria between different phases and then to chemical reactions. Three lectures and one 3-hr. lab per week. Prerequisites: Math 250 and Phys 250.

Physical Chemistry II (S,Even)

40.0506-402 4 hrs. cr.
Continuation of Chem, 401. Microscopic approach to the understanding of chemical and physical properties of chemical systems and a study of the rates at which chemical and physical processes occur. Studies of: quantum theory, molecular electronic structure, molecular spectroscopy, statistical mechanics, kinetic theory of gases, and chemical kinetics. Three lectures and one 3-hr. lab per week. Prerequisite: Chem 401.

Analytical Chemistry II (S)

40.0502-421 5 hrs. cr.
Study of the overall analytical process. Lecture and laboratory deal mainly with electrochemical and spectrophotometric methods of analysis and their application in chemical analysis; also include other physiochemical and separatory techniques used in modern analytical processes. Three lectures and two 3-hr. labs per week. Prerequisite: Chem 201.

Advanced Inorganic Chemistry (F,Even)

40.0503-422 4 hrs. cr.
Coordination complexes, periodic classification of the non-transitional and transitional elements. Three lectures and one 3-hr. lab per week. Prerequisites: Chem 102 and Math 250.

Organic Qualitative Analysis (S,Odd)

40.0509-472 4 hrs. cr.
Systematic identification of organic compounds and mixtures. Two lectures and two 3-hr. labs per week. Prerequisite: Chem 302.

Seminar (F,S)

40.0599-498 1-3 hrs. cr.
For upper division chemistry majors. Content varies, depending on student's needs, from library research to special topics in chemistry. Prerequisite: senior standing or permission of the department head.

Independent Study (F,S)

40.0599-499 1-3 hrs. cr.
Independent investigation techniques; includes a paper on a selected topic with both a critical survey of the chemical literature and results from advanced laboratory experimentation. Open to students having (1) minimum of 15 hours of chemistry, (2) the ability to undertake independent work, and (3) permission of the instructor. Registration must be approved by the advisor, department head, and school dean.

COMMUNICATIONS (Comm)**Oral Communication (F,S)**

09.0101-100 3 hrs. cr.
Fundamental principles of oral communication; designed to improve self-expression through the development of organizational abilities and skilled delivery. Emphasis on the spoken word. (Meets general education requirements.)

Introduction to Human Communication (F)

09.0101-101 3 hrs. cr.
Basic survey of the scientific approaches to human symbolic exchange. Preparation for entering the field of communications. (Does not meet general education requirements.)

Business and Professional Speech (F,S)

09.0101-103 3 hrs. cr.
A performance-oriented course designed to foster ability in and understanding of the role of speech communication in the context of business organizations and the professions. Includes interviewing, group discussion, and individual speaking formats. (Meets general education requirements and recommended for business and management majors.)

Newsriting (F,S)

09.0401-111 3 hrs. cr.
Development of techniques in reporting and writing for a newspaper. Work on the college newspaper, *The Chart*, is required.

Mass Communications Theory (S)

09.0401-120 3 hrs. cr.
Principles, history, and development of the media and their role in political, social, and economic life of the present.

Forensics Workshop (F,S)

23.1001-121 (Per sem.) 1 hr. cr.
A practicum in forensics, including research, organization, and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hours of credit.

Introduction to Broadcasting (S)

09.0701-130 3 hrs. cr.
The role of the electronic media in our society and an introduction to the varied aspects and

functions of the broadcasting professions. Laboratory experience in television.

Voice and Articulation (F,S)

23.1001-131 3 hrs. cr.
Techniques for improving the speaking voice. Attention to phonetics, articulation, pronunciation, and general expression. (Meets general education requirements and recommended for education majors.)

Radio Production (F)

09.0701-200 4 hrs. cr.
Development of announcing skills. Exercises in microphone techniques; introduction to control board; basic production techniques; development of radio station's staff requirements and responsibilities; introduction to programming and formats. Project programs are taped for analysis. 2 hrs. of lecture, 4 hrs. of lab per week. Prerequisite: Comm 130.

Television Production (S)

09.0701-201 4 hrs. cr.
Intensive practice in preparation and production of television programs. Camera technique, floor set-ups, and direction of crews and talent; interviewing techniques; development of varied "on-the-air" skills. 2 hrs. of lectures, 4 hrs. of lab per week. Prerequisite: Comm 200.

Interpersonal Communication (F)

09.0101-215 3 hrs. cr.
Person-to-person communication with emphasis on dyadic and group communication. Lecture, reading, and discussion with class experiments designed to illustrate interpersonal communication problems. Prerequisite: Comm 100 or 131.

Practicum in Communications (F,S)

09.0401-220 (Per sem.) 1 hr. cr.
Laboratory experience on the staff of the college newspaper, yearbook, or broadcast media. Students participate fully in the work of the media, working under the supervision of faculty members. A minimum of 5 hrs. per week is required. 1 hr. of credit each term for a maximum of 3 terms. Prerequisite: Consent of instructor.

Feature Writing (F)

09.0401-231 3 hrs. cr.
Investigative reports and special articles for newspapers and magazines. Work on the college newspaper is required. Prerequisite: Comm 111 or consent of instructor.

Copyediting

09.0401-233 3 hrs. cr.
Principles of copy reading and editing, design of newspaper, paste-up techniques. Students work in positions of major responsibilities on the college newspaper, *The Chart*. Prerequisite: Comm 111.

Selected Topics in Communications (Demand)

09.0101-298 1-8 hrs. cr.
Topics not normally included in another course.
Prerequisites determined by the department and stipulated in syllabus.

Organizational Communication (F,Even)

23.1001-300 3 hrs. cr.
The interface between communication theory and organizational structure. Emphasis on communication problems in organizations, strategies for overcoming such problems, and the design of effective communication systems in organizational settings.

Broadcast and Cable Management (S,Even)

09.0701-301 3 hrs. cr.
Broadcast station administration, market analysis, policy determination, station organization, sales, programming, network relationships, community involvement, and FCC responsibilities.

Photocommunications (Demand)

09.0401-302 3 hrs. cr.
Theory and practice of communication through the media of photography. Students work on the photography staffs of college publications and deal with the application of photography to the mass media. Prerequisite: Comm. 111 and a knowledge of photographic techniques, including developing and printing.

Small Group Communication (F,Even)

09.0401-310 3 hrs. cr.
Statutes, administrative regulations, and court decisions affecting freedom of information, censorship, libel, privacy, contempt of court, obscenity, legal access, copyright, advertising, and broadcasting. Rights, privileges, and obligations of the press.

Introduction to Public Relations (F,Odd)

09.0101-311 3 hrs. cr.
Nature and scope of public relations and its relationship to interpersonal and interdisciplinary conduct. Basic elements of public relations including planning, special events, speeches, news releases, annual reports, financial reporting, visual and electronic media techniques. Prerequisite: Comm 111.

Scholastic Publications (Demand)

09.0401-312 3 hrs. cr.
Editorial and production practices of school newspapers and yearbooks. The role of the publications advisor; advanced publication work on the college newspaper or yearbook. Prerequisite: 12 hrs. in media courses.

Argumentation and Debate (F,Even)

23.1001-315 3 hrs. cr.
Theory of modern forms of evidence, evaluations, arguments, methods of refutation, and ethical relationships of these methods in a free

society. (Meets certification requirements for secondary education.)

Forensics Workshop (F,S)

23.1001-321 (Per Sem) 1 hr. cr.
Advanced practicum including research, organization, and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit. Prerequisite: Junior or senior standing.

Broadcast News Reporting (F)

09.0601-325 3 hrs. cr.
Experience in writing and reporting news for broadcast. Interview assignments, wire rewriting, actualities/voice production, and newstape editing. Laboratory experience with campus broadcast media. Prerequisite: Comm 111.

Advanced Communications Practicum (F,S)

09.0401-330 2 hrs. cr.
Intensive laboratory experience on the staff of the college newspaper, yearbook, or broadcast media. Students will work for a minimum of 10 hrs. per week in positions of major responsibilities. May be repeated for a maximum of 6 hrs. of credit. (Prerequisites: Junior or senior standing; media courses to prepare student adequately for work expected.)

Internship in Communications (F,S,Summer)

09.0101-345 8 hrs. cr.
Off-campus work experience in areas related to professional goals of students. For advanced majors in communications. Students must be approved for the program prior to enrolling. The student works under joint supervision of a faculty member and a representative of the organization providing the intern experience. Prerequisites: Communications major with a minimum of 85 semester hours; approval of the department head prior to enrolling.

TV Programs and Programming (F,S)

09.0701-402 4 hrs. cr.
Methods and principles of television programming and program preparation. Emphasis on preparation of educational and cultural programs. Prerequisite: Comm. 201.

Political and Social Communication (S,Even)

09.0101-411 3 hrs. cr.
Critical analysis of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs; includes lecture, reading, and discussion.

Professional Communication Skills (S,Odd)

09.0101-490 3 hrs. cr.
Writing, speech preparation, and the public presentation of ideas. Both written and oral presentations are required, with considerable emphasis on effective use of language.

International Communication (S,Odd)

09.0101-493 3 hrs. cr.
Analysis of factors influencing communication across cultural and national boundaries. Topics include language diversity, value and perceptual differences, nonverbal symbols, ethnocentrism, international broadcasting, media imperialism, and the "New World Information Order."

Seminar in Speech Communication (Demand)

09.0101-498 3 hrs. cr.
For upper-division students. Topics to be announced each time course is offered.

Seminar in Mass Communications (Demand)

09.0401-498 1-3 hrs. cr.
For upper-division students. Topics to be announced each time course is offered. Prerequisite: Senior standing and at least 15 hrs. of communications courses. Juniors may enroll with permission of instructor.

Independent Study in Speech Communication

09.0101-499 1-3 hrs. cr.
An independent course structured by the advisor with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0 or approval of the department head. Registration must be approved by advisor, department head, and school dean.

Independent Study in Mass Communications

09.0401-499 1-3 hrs. cr.
Individually directed study in selected areas for advanced majors in mass communications. Prerequisite: A GPA of 3.0 in the major field and 15 hrs. of communications. Registration must be approved by the advisor, department head, and school dean.

ENGLISH (Eng)

Basic Composition

23.0401-080 3 hrs. cr.
For students whose placement scores indicate they cannot successfully complete the normal sequence of Eng. 101-102 without special help and individual attention. Course concentrates on basic grammar, punctuation, usage, and principles of effective writing, with a special focus on effective sentences and paragraphs. Students must complete this course with a passing grade before being permitted to enroll in English 101.

Freshman Composition I

23.0401-101 3 hrs. cr.
Principles of effective writing based upon expository models. Successful completion of the goals of the course content permits the student to enroll in English 102. Students demonstrating exceptional ability as indicated by placement scores may be permitted to substitute English 111.

Freshman Composition II

23.0401-102 3 hrs. cr.
Continued development of writing skills. Initiation, development, and completion of a research paper.

Technical Writing

23.0401-103 3 hrs. cr.
Second-semester composition course focused on the practical demands of on-the-job writing. Prerequisite: English 101, with a grade of a C or better. Substitutes for English 102, except for majors in the school of Business or for the Bachelor of Science in Education degree.

Advanced Freshman Composition

23.0401-111 3 hrs. cr.
For freshmen demonstrating exceptional proficiency on placement tests. With a grade of a C or better in English 111, a student automatically receives 3 hours credit for English 101, thereby satisfying the 6-hour composition requirements. However, a D in Eng 111 necessitates taking Eng 102.

Introduction to Literature

23.0101-150 3 hrs. cr.
An examination of literary themes reflected in the genres of prose, poetry, drama, and film; critical techniques and approaches.

Creative Writing (S)

23.0501-216 3 hrs. cr.
Writing of prose, poetry, and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills.

Masterpieces of World Literature

23.0301-261 3 hrs. cr.
Selected literature through the Renaissance, excluding British and American literature.

Masterpieces of World Literature

23.0301-262 3 hrs. cr.
Selected literature from the Renaissance to the present, excluding British and American literature.

English Literature

23.0801-271 3 hrs. cr.
Survey of English literature from its beginnings to the Romantic Movement.

English Literature

23.0801-272 3 hrs. cr.
Survey of English literature from the Romantic Movement to the present.

American Literature

23.0701-281 3 hrs. cr.
Survey of American literature from its beginnings to the Civil War.

American Literature

23.0701-282 3 hrs. cr.
Survey of American literature from the Civil War to the present.

Explorations in Literature [Demand]

23.0101-298 3 hrs. cr.
Studies in a variety of literary subjects. Topic open.

Modern Grammar (F)

23.0101-301 3 hrs. cr.
Survey of the major descriptive approaches to English grammar, with some attention devoted to the topics of usage, dialect, and practical applications.

The Short Story

23.0110-305 3 hrs. cr.
In-depth study of the short story.

Professional Writing (F)

23.0401-310 3 hrs. cr.
Advanced course focused on the technical writing demands of professional occupations.

Exposition (S)

23.0401-315 3 hrs. cr.
Techniques of factual writing. Recommended for all students, especially those planning professional careers. Prerequisite: 6 hrs. composition.

Composition for Teachers (F)

23.0401-319 3 hrs. cr.
For prospective teachers of English. A review of grammar, practice in writing, and the theory of teaching writing.

Children's Literature (S)

23.0101-325 3 hrs. cr.
A reading, lecture, and observation course for elementary education students, including evaluation of children's literature, its historical development, and its uses in the elementary school. Does not count toward an English major and does not meet general education literature requirements.

Literature for Adolescents

23.0101-330 3 hrs. cr.
Extensive reading course for English education students including evaluation of adolescent literature, some methodology for classroom use, and a major unit on minorities literature.

Black American Literature

23.0701-340 3 hrs. cr.
Writings by Black Americans from the Colonial Period to the present.

The American Novel

23.0701-345 3 hrs. cr.
Representative works of authors such as Hawthorne, Melville, Twain, and Faulkner.

Recent American Fiction

23.0701-350 3 hrs. cr.
Major movements in American fiction since World War II.

Twentieth Century Drama

23.0101-360 3 hrs. cr.
Plays in English from Shaw to the present.

Twentieth Century Poetry

23.0101-370 3 hrs. cr.
English and American poetry from Yeats to the present.

The English Novel

23.0801-380 3 hrs. cr.
1700 to the present, featuring representative works from authors such as Austen, Dickens, and Joyce.

History of the English Language (S)

23.0801-400 3 hrs. cr.
The ancestors of English and the effect of other languages, peoples, and cultures upon its development. Phonology, morphology, syntax, and usage of the language throughout its history.

Medieval English Literature

23.0801-410 3 hrs. cr.
Literature of England in the Anglo-Saxon and Middle English periods. Emphasis upon Chaucer.

Renaissance Non-Dramatic Literature

23.0801-415 3 hrs. cr.
English poetry and prose from 1500 to 1600.

English Drama to 1800

23.0801-420 3 hrs. cr.
English drama from the beginnings to 1800 (excluding Shakespeare).

Restoration and Eighteenth Century English Literature

23.0801-425 3 hrs. cr.
The rise of Neoclassicism, the Enlightenment, and the decline of Neoclassicism in literature from 1660-1798, Dryden to Gray.

The Romantic Period

23.0801-430 3 hrs. cr.
English literature from 1798 to 1832. Literary tendencies and representative authors from Wordsworth through Keats.

The Victorian Period

23.0801-435 3 hrs. cr.
English literature from 1832 to 1901. Literary tendencies and authors such as Tennyson, Browning, and Arnold.

Shakespeare (F)

23.0801-450 3 hrs. cr.
Selected comedies, histories, tragedies, and non-dramatic poems.

Literary Criticism

23.0101-480 3 hrs. cr.
Major school of criticism including historical background and the major spokesman for each school.

Seminar in Literature

23.0101-498 3 hrs. cr.
For advanced English majors or by permission of department head. Topic open.

Independent Study

23.0101-499 1-3 hrs. cr.
Individually directed study in selected areas for advanced English majors. Prerequisite: a GPA of 3.0 in English. Registration must be approved by advisor, department head, and school dean.

FOREIGN LANGUAGE

FRENCH (Fren)

Beginning French (F)

16.0901-101 5 hrs. cr.
Conversation, pronunciation, essentials of grammar and diction. Language lab required.

Intermediate French (S)

16.0901-102 5 hrs. cr.
Spoken language vocabulary building, pronunciation proficiency and grammar essentials. Language lab required.

Readings in French Literature (F)

16.0901-201 3 hrs. cr.
Intermediate reading, discussion of literature in French, emphasis on vocabulary building, grammar review. Prerequisite: Fren 102 or equivalent.

Advanced Readings in French Literature (S)

16.0901-202 3 hrs. cr.
Representative works read and discussed in French, short stories, a novel, and poetry. Prerequisite: Fren 201 or equivalent.

French Composition (Demand)

16.0901-301 3 hrs. cr.
Practice in writing French accompanied by a thorough study of grammar and syntax. Prerequisite: Fren 202 or equivalent.

Advanced French Composition (Demand)

16.0901-302 3 hrs. cr.
Practice in writing French compositions. Thorough study of grammar, syntax, and idiomatic expressions. Prerequisite: Fren 301.

Survey of French Literature (Demand)

16.0901-322 3 hrs. cr.
French literature of the eighteenth, nineteenth and twentieth centuries. Prerequisite: Fren 321.

GERMAN (Ger)

Beginning German (F)

16.0501-101 5 hrs. cr.
Conversation, pronunciation, essentials of grammar and diction. Language lab required.

Intermediate German (S)

16.0501-102 5 hrs. cr.
Spoken language, vocabulary building, pronunciation proficiency, and grammar essentials. Language lab required.

Readings in German Literature (F)

16.0501-201 3 hrs. cr.
Intermediate reading, discussion of literature. Emphasis on vocabulary building, grammar review. Prerequisite: Ger 102 or equivalent.

Advanced Readings in German Literature (Demand)

16.0501-202 3 hrs. cr.
Reading and discussion of representative works in German with emphasis on conversation, syntax, and literary significance. Prerequisite: Ger 201 or equivalent.

SPANISH (Span)

Beginning Spanish (F,S)

16.0905-101 5 hrs. cr.
Oral-aural method is used to develop concurrently the skills of speaking, understanding, reading, and writing in Spanish. Emphasis on developing speaking skills through the structured presentation of basic grammatical principles and vocabulary and through conversational sessions. Five classes; lab required, consisting of listening to tapes to develop basic language patterns and to reinforce pronunciation skills.

Intermediate Spanish (F,S)

16.0904-102 5 hrs. cr.
Continuation of basic grammar. Acquisition of a more thorough understanding of the fundamentals of Spanish. Growing emphasis on reading and writing. Five classes; lab required, consisting of listening to tapes to develop basic language patterns and to reinforce pronunciation skills.

Accelerated Beginning Spanish

16.0905-103 3 hrs. cr.
Oral-aural method is used to develop concurrently the skills of speaking, understanding, reading, and writing Spanish. Emphasis on basic grammatical principles and vocabulary. Covers substantial portion of the basic gram-

mar. 3 hours; lab required. Course designed for students who have completed a minimum of 2 years of high school Spanish. Prerequisite: Permission.

Accelerated Intermediate Spanish

16.0905-104 3 hrs. cr.
Continuation of 103. Acquisition of a more thorough understanding of the fundamentals of Spanish. Stresses spoken language, vocabulary building, pronunciation proficiency and grammar essentials. 3 hours language lab required. Course designed for students who have completed Spanish 104. Prerequisite: Permission.

Readings and Conversations (F,S)

16.0905-201 3 hrs. cr.
Maximum attention to active skills of understanding and speaking. Discussion on current issues and cultural reading selections. Translation work stresses main syntactical differences between Spanish and English. Explanations of major aspects of phonology and the basic norms of morphology to facilitate oral fluency and vocabulary acquisition. One hour of lab required for active conversational practice. Students conduct structured conversational sessions.

Introduction to Hispanic Literature and Culture (F,S)

16.0905-202 3 hrs. cr.
Skills of understanding and speaking through the examination of short literary selections by Peninsular and Spanish American writers as presented in their cultural context. Readings in Spanish Civilization. One hour of lab work required for active conversational practice. Students conduct structured conversational sessions.

Selected Topics in Spanish (Demand)

16.0905-298 3 hrs. cr.
Topics not normally included in another course. Prerequisites determined by the department and stipulated in syllabus.

Survey of Peninsular Literature

16.0905-319 5 hrs. cr.
Spain's literary history and important representative works and writers from El Cid to the present. Conducted in English and Spanish. One hour of lab work required with active conversational practice. Students conduct structured conversational sessions.

Spanish Syntax and Composition

16.0905-320 5 hrs. cr.
Practice in writing Spanish accompanied by a thorough study of grammar and syntax with emphasis on subtle elements of idiomatic usage. One hour of lab work required for active conversational practice. Students conduct structured conversational sessions.

Introduction to Spanish American Literature (S)

16.0905-332 3 hrs. cr.
Major periods, movements, themes, genre, and styles of Spanish American Literature with focus on both artistic and social importance. Includes history, epic and lyrical poetry, short story, and some essay. Conducted in Spanish. One hour of lab work required for active conversational practice. Students conduct structured conversational sessions.

The Novelistic Tradition: From Cervantes to the Anti-Realism Tendencies in Modern Fiction

16.0905-440 3 hrs. cr.
Structure, narrative technique, and aesthetic concepts underlying prose fiction as seen through Cervantes, Rabelais, Flaubert, Balzac, Dickens, Kafka, Garcia-Marquez, and Borges. Conducted in English. Open to non-majors. Can be counted toward a major in English but not as a part of the General Education requirements. Prerequisites: Eng 101 and 102 or 103.

Independent Study (F,S)

16.0905-499 1-3 hrs. cr.
Individually directed study in selected areas for advanced majors in Spanish. Prerequisite: GPA of 3.0 in the major field and 15 hours of Spanish. Registration must be approved by the advisor, department head, and school dean.

GEOGRAPHY (Geog)**Regions and Nations (F,S)**

45.0701-211 3 hrs. cr.
Survey of the peoples of the earth and how their activities are influenced by climate, topography, and natural resources.

Topics in Geography (Demand)

45.0701-298 3 hrs. cr.
Special geography topics of current interest. Subjects and instructors change each semester. Students are encouraged to submit areas of interest to the Social Sciences Department.

Political Geography (Demand)

45.0701-311 3 hrs. cr.
Geographic factors which have influenced international relations and the policies of nations as political units. Emphasis on geopolitics, religion, racial and ethnic groupings and other factors which contribute to unity or disunity.

Economic Geography (Demand)

45.0701-322 3 hrs. cr.
World commodities and the geographic factors which affect their production and make them significant to the world economy.

Geography and Culture of Latin America (Demand)

45.0701-412 3 hrs. cr.
Cultural and physical regions and natural resources of South America, Latin America, Central America, and the Caribbean Islands. Special emphasis on current problems and relations with the United States.

Geography Of The United States And Canada (Demand)

45.0701-422 3 hrs. cr.
Geographic analysis of the United States and Canada with emphasis on regional variations of social, economic, and physical phenomena.

Seminar in Geography (Demand)

45.0701-498 1-2-3 hrs. cr.
Study and analysis of selected topics in regional, urban-economic, cultural, or physical geography.

GEOLOGY (Geol)**Introduction to Geology (S)**

40.0601-110 5 hrs. cr.
Materials of the earth and those forces producing physiographic changes. Three lectures and two 2-hour labs or field trips a week.

Earth Environments (Demand)

40.0601-300 4 hrs. cr.
Aspects of the solid earth, the liquid environments of earth and our atmosphere. Discussions of interactions of these and their relationships to human society. Prerequisite: Phys 100.

Historical Geology (Demand)

40.0601-320 4 hrs. cr.
History of the earth, the fossil record, and physical features resultant from earth dynamics of the past. Prerequisites: Phys 100, Geol 110

Studies in Geology (Demand)

40.0601-498 1-3 hrs. cr.
Seminar for upper division students only. Meets regularly a minimum number of hours each week equal to the number of credit hours. Specialized instruction in some discipline of geology not normally covered in other courses. Prerequisite: junior standing, Geol 110 and a minimum GPA of 2.5 in 8 hours of biology and 8 hours of chemistry. Permission of the instructor required.

Problems in Geology (Demand)

40.0601-499 1-3 hrs. cr.
Individual work under the supervision of a staff member with credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and consent of the supervising instructor. Prerequisite: a minimum GPA of 3.0 in 20 hours of science, Geol 110, and a proven interest in geology.

HISTORY (Hist)**I. U.S. HISTORY COURSES****United States History 1492-1877 (F,S)**

45.0801-110 3 hrs. cr.
Survey of the United States from the era of discovery through reconstruction. Meets the General Education requirements for all majors.

United States History 1877 to Present (F,S)

45.0801-120 3 hrs. cr.
Survey of the economic, social and political development of the United States from 1877 to the present. Meets the General Education requirement for all majors.

Topics in History (Demand)

45.0801-298 3 hrs. cr.
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

United States Social and Intellectual History (Demand)

45.0801-305 3 hrs. cr.
Ideas which have influenced the intellectual, cultural, and social aspects of the United States from colonial times to 1877.

United States Social and Intellectual History (Demand)

45.0801-310 3 hrs. cr.
Society and ideas of the United States during the period of its great industrial expansion and emergence as a major world power.

Economic History of the United States (F, Even)

45.0801-315 3 hrs. cr.
Development of the American economy and its related institutions from the early national period to the present.

The American Frontier (F,Odd)

45.0801-325 3 hrs. cr.
The westward expansion of the United States and its effects upon the social, political, and economic institutions until the close of the frontier in 1890.

History of the American Indian (Demand)

45.0801-330 3 hrs. cr.
Social, political, diplomatic, military, and legal history of the native American society.

Diplomatic History of the United States to 1900 (F, Even)

45.0801-335 3 hrs. cr.
Diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900.

Twentieth Century Diplomacy (S,Odd)

45.0801-340 3 hrs. cr.
An investigation of United States diplomacy and the present-day world. Emphasizes the role of the United States in world affairs.

Age of Jefferson and Jackson (Demand)

45.0801-345 3 hrs. cr.
Early political development in the United States. Evolution of the presidency over the first years of the new government, the triumph of Jeffersonian ideas, social trends, and the rise of nationalism.

Civil War and Reconstruction (S)

45.0801-350 3 hrs. cr.
Causes of the Civil War, slavery, and reform movements before the Civil War. Traces the development of reconstruction and political developments of the era.

The South (F, Even)

45.0801-355 3 hrs. cr.
Social, economic, political, and intellectual history of the Southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.

History of Missouri (F,Odd)

45.0801-360 3 hrs. cr.
Missouri's growth from its early settlement to the present. Emphasis on political, economic, institutional, and social development.

United States Colonial History (Demand)

45.0801-365 3 hrs. cr.
Colonial development from 1492 to 1781. Emphasis on early colonization and British imperial policy along with social, cultural, political, and economic growth. Includes the Revolutionary War period.

United States Military Experience 1775 to Present (S)

45.0801-400 3 hrs. cr.
Major wars and other activities of the armed forces with emphasis on general military policy, strategy, tactics, organization, and technology.

The United States 1870-1920 (Demand)

45.0801-405 3 hrs. cr.
United States at the turn of the century with the impact of the industrial revolution and its effect on social, political and economic institutions, the Progressive Movement, and World War I.

The United States Since 1920 (S,Even)

45.0801-410 3 hrs. cr.
Impact of politics, diplomacy, and economic trends of the United States since 1920.

United States Constitutional History (Demand)

45.0801-420 3 hrs. cr.
Growth and development of the United States Constitution from 1787 to the present.

Seminar in History (F or S)

45.0801-498 3 hrs. cr.
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate, and present new areas of knowledge. Prerequisite: junior or senior status; prior instructor consultation is advised.

Independent Study (F,S)

45.0801-499 1-2-3 hrs. cr.
Individualized project directed by the instructor/advisor with approval of the Department Head and the Dean of the School of Arts and Sciences. Advanced standing in the major field and a minimal GPA of 3.0 are required.

II. EUROPEAN HISTORY COURSES

Western Civilization to 1660 (F,S)

45.0801-130 3 hrs. cr.
Development and progress of western civilization from its origins through the Reformation. Changes in political organization, religion, artistic expression, and daily life in the ancient Near East, Greece, Rome, and Christian Europe. May be used as a General Education elective.

Western Civilization Since 1660 (F,S)

45.0801-140 3 hrs. cr.
Western societies from the Baroque Era to the retreat of European colonialism. Major emphasis on development of the nation-state, impact of industrialization, changes in political and religious outlook, impact of revolutions and two world wars. May be used as a General Education elective.

Topics in History (Demand)

45.0801-298 3 hrs. cr.
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Medieval History (F,Odd)

45.0801-320 3 hrs. cr.
Europe from the end of the Roman Empire to c. 1500. Emphasis on the emergence of the Papacy, manorialism and feudalism, on the development of cities and an urban economy, and on intellectual life and artistic expression.

Nineteenth Century Europe (Demand)

45.0801-369 3 hrs. cr.
Major alterations of European society during this century. Emphasis on industrialization, imperialism, revolutions, rise of socialism/communism, middle-class liberal capitalism, individual national events.

Twentieth Century Europe (Demand)

45.0801-370 3 hrs. cr.
A survey approach with emphasis on World Wars I and II, the League of Nations, and United Nations, totalitarian systems, and current European/world problems.

English History to 1660 (F,Even)

45.0801-375 3 hrs. cr.
Rise and development of the English people from the Celts through the English Civil Wars. Major topics include Anglo-Saxon and Norman contributions to English civilization, changing roles of monarch, and daily life of various social classes.

English History Since 1660 (S,Odd)

45.0801-380 3 hrs. cr.
English people and institutions from the restoration of Charles II to the present. Concentration on emergence of modern Parliamentary democracy, the industrial revolution, the Empire, and current position of England in world affairs.

History of Russia to 1725 (F,Odd)

45.0801-387 3 hrs. cr.
History of Russia from pre-Tsarist times through the reign of Peter the Great. Emphasis on the land and the people, national characteristics, and political institutions.

History of Russian Since 1725 (S,Even)

45.0801-388 3 hrs. cr.
History of Russia since 1725 and the Soviet Union since the Bolshevik Revolution. Investigates the problems posed by Tsarist autocracy and serfdom, the origins and course of the Bolshevik Revolution, and Russian life under Communism.

History of German (Demand)

45.0801-390 3 hrs. cr.
Social, political, military, and economic history of Germany, with major concentration on the post 1519 period. Emphasis on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich, the post World War II.

The Renaissance and the Reformation 1350-1650 (S,Even)

45.0801-425 3 hrs. cr.
An overview of Europe from 1350 to 1650. Changes in thought and artistic expression, the divisions within Western Christendom, the emergence of national monarchies, and the impact of economic change on daily life.

The Era of the French Revolution and Napoleon (F,Even)

45.0801-435 3 hrs. cr.
An examination and analysis of events in France and their impact on Europe from 1789 to 1815.

Interplay of ideas and people and the quest for a political settlement under a constitutional monarchy, republic, and empire.

European Intellectual History (S,Even)

45.0801-440 3 hrs. cr.
Intellectual, cultural, and social development in Europe from the Italian Renaissance to the present. Examination of the rise of scientific thought, the Enlightenment, Romanticism, nationalism, political ideologies, social reforms, and existentialism.

English Constitutional History (Demand)

45.0801-450 3 hrs. cr.
Development of English political and legal institutions with emphasis on the Anglo-Norman background, the rise of parliament, Tudor absolutism, the Stuart period of revolution, development of the Cabinet, nineteenth century democratization, and evaluations resulting from the crisis of the Twentieth Century.

Seminar in History (F or S)

45.0801-498 3 hrs. cr.
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate, and present new areas of knowledge. Prerequisite: junior or senior status; prior instructor consultation is advised.

Independent Study (F,S)

45.0801-499 1-2-3 hrs. cr.
Individualized project directed by the instructor/advisor with approval of the Department Head and the Dean of the School of Arts and Sciences. Advanced standing in the major field and a minimal GPA of 3.0 are required.

III. ORIENTAL HISTORY COURSES

Topics in History (Demand)

45.0801-298 3 hrs. cr.
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

History of China (F,Even)

45.0801-415 3 hrs. cr.
Survey of modern China. Emphasis on Chinese society, political developments, and relations with the West in the nineteenth and twentieth centuries.

History of Japan (Demand)

45.0801-430 3 hrs. cr.
Japan's history from the middle of the nineteenth century to the present. Attention to Japan's contact with the West.

Seminar in History (F or S)

Advanced topics not covered in other history offerings. Emphasis on the student's ability to research, assimilate, and present new areas of knowledge. Prerequisite: junior or senior status; prior instructor consultation is advised.

Independent Study (F,S)

45.0801-499 1-2-3 hrs. cr.
Individualized project directed by the instructor/advisor with approval of the Department Head and the Dean of the School of Arts and Sciences. Advanced standing in the major field and a minimal GPA of 3.0 are required.

MATHEMATICS (Math)

Beginning Algebra (F,S)

27.0101-020 3 hrs. cr.
Operations on signed numbers, linear equations and inequalities, systems of linear equations, factoring polynomials. No credit towards baccalaureate degree.

Intermediate Algebra (F,S)

27.0101-030 3 hrs. cr.
Factoring, operations on polynomials, radicals, quadratic equations. Prerequisite: one year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 020 with a grade of C. No credit towards baccalaureate degree.

Intro to College Mathematics (F,S)

27.0101-110 3 hrs. cr.
Basic college mathematics with an introduction to various areas of mathematics such as computer programming, linear programming, set theory, probability and statistics, and geometry. Satisfies requirement in mathematics for general education. Prerequisite: one year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 020 with a grade of C.

Math for Elementary Teachers I (F,S)

27.0101-111 3 hrs. cr.
The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: one year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 020 with a grade of C. (Will not meet general education mathematics requirement for non-elementary education majors.)

Trigonometry (Demand)

27.0101-112 3 hrs. cr.
Trigonometric and logarithmic functions, complex numbers, with applications. Prerequisite: one and one half units of high school algebra, one unit high school geometry, and satisfactory score on the Mathematics Placement Test, or Math 030, or permission of the instructor.

Math for Elementary teachers II (F,S)

27.0101-120 3 hrs. cr.
A continuation of Math 111. Sets of points, metric and nonmetric geometry, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111 or permission of instructor.

College Algebra (F,S)

27.0101-130 3 hrs. cr.
Linear equations, radicals, exponents, quadratic equations, inequalities, theory of equations, and the binomial theorem. Prerequisite: one and one half units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test, or Math 30 with grade of C.

Finite Mathematics (F,S)

27.0101-131 3 hrs. cr.
Finite mathematics with algebra designed for business, social science, and computer science students. Set theory, functions, matrices, linear programming, probability and statistics, with applications. Prerequisite: one and one half units of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 030 with a grade of C.

Algebra and Trigonometry (F,S)

27.0101-140 5 hrs. cr.
Equivalent of Math 112 and Math 130. Prerequisite: one and one half units of high school algebra, one unit of high school geometry or permission of the instructor and satisfactory score on the Mathematics Placement Test.

Calculus with Analytic Geometry I (F,S)

27.0101-150 5 hrs. cr.
Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of C, or four units of high school mathematics and a satisfactory score on the Mathematics Placement Test.

Calculus with Analytic Geometry II (F,S)

27.0101-250 5 hrs. cr.
Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits and continuity, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of C.

Calculus with Analytic Geometry III (F,S)

27.0101-260 5 hrs. cr.
Solid analytic geometry, indeterminate forms, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of C.

Fundamentals of Mathematical Thought (S)

27.0101-300 3 hrs. cr.
Introduction to modern algebra and analysis. Sets, relations, functions, logical development of number systems, introduction to theory of groups, rings, integral domains and fields. Prerequisite or corequisite: Math 260.

Calculus for the Management and Social Sciences (Demand)

27.0101-302 3 hrs. cr.
Calculus applications of differentiation and integration in business and social sciences. Prerequisite: Math 130, or Math 131, or two years high school algebra and satisfactory score on the Mathematics Placement Test. Will not count toward a major in mathematics.

Elementary Statistics (Demand)

27.0501-310 3 hrs. cr.
Basic statistical background for the various majors for advanced study in their specialties. Topics include data reduction, measures of central tendency, linear regression, correlation, and hypothesis testing, with applications to social, managerial, biological, and physical sciences. Satisfies the general education requirements in mathematics. Prerequisite: two years high school algebra or Math 130. Will not count toward a major in mathematics.

Problems of Teaching Arithmetic in the Elementary Schools

13.1311-312 2 hrs. cr.
(See Education 312 for description.) Will not count toward a major in mathematics.

Differential Equations (S)

27.0101-322 3 hrs. cr.
Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions, with applications. Prerequisite: Math 260.

Geometry (F,Even)

27.0101-332 3 hrs. cr.
Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean, and nonEuclidean geometries.

Teaching Mathematics in Secondary Schools (S)

13.1311-339 2 hrs. cr.
(See Education 339 for description.) Will not count toward a major in mathematics.

Advanced Engineering Mathematics (Demand)

27.0301-340 3 hrs. cr.
Applied linear algebra and boundary value problems in partial differential equations. Corequisite: Math 322 or permission of instructor.

Abstract Algebra (F,Odd)

27.0101-342 3 hrs. cr.
Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains, and fields. Prerequisite: Math 300.

Introduction to Numerical Analysis (S,Even)

27.0301-350 3 hrs. cr.
Error Analysis, solution of polynomial and transcendental equations, co-location polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 and Comp 115.

Linear Algebra (S,Odd)

27.0101-351 3 hrs. cr.
Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite or corequisite: Math 300.

Introduction to Probability (F)

27.0501-361 3 hrs. cr.
Theory of probability using concepts and methods of calculus. Discrete and continuous distributions. Prerequisite: Math 260.

Introduction to Operations Research (F,Odd)

27.0101-371 3 hrs. cr.
Operations research/management science for computer science and mathematics students. Includes linear programming, project scheduling, Markov chains, queuing theory. Prerequisite: Math 260.

Intro to Advanced Calculus (F,Even)

27.0101-421 3 hrs. cr.
Methods of real analysis; basic topology of real numbers, sequences and series, the derivative and the Riemann integral. Prerequisite: Math 300.

Numerical Analysis (F,Even)

27.0301-431 3 hrs. cr.
Fundamental numerical analysis theorems. Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 332 and Comp 115.

Mathematical Models (S,Even)

27.0301-452 3 hrs. cr.
Applying mathematics in formulating and analyzing models for real world problems. Topics include linear optimization, game theory, graph models, deterministic and stochastic models, and computer simulation. Prerequisite: Math 322.

Intro to Mathematical Statistics (S,Odd)

27.0501-462 3 hrs. cr.
Distributions of discrete and continuous random variables, sampling distributions and estimation of parameters. Investigation of techniques of hypothesis testing, correlation, and regression. Prerequisite: Math 361.

Seminar in Mathematics (Demand)

27.9999-498 1-3 hrs. cr.
For upper division math or related majors. Regular meeting times per week are equal to the number of credit hours determined by the department for a given semester. Gives both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.

Independent Study (Demand)

27.9999-499 1-3 hrs. cr.
Course structured by the advisor with approval of the department head and school dean. Prerequisite: advanced standing in the major field with a GPA of 3.0. Students must make application several weeks in advance. Registration must be approved by the advisor, department head, and school dean. See department head for details.

MUSIC (Mus)

Opera or Musical Theatre Performance (S)

50.0903-102,202,302,402 1 hr. cr.
Performance of a role along with active participation in the different areas of staging the musical or opera. Credit applied after departmental evaluation and approval at the end of the semester. (Students may not receive credit from both the theatre department and music department for the same production).

Sight-singing and Ear-training (S)

50.0903-109 2 hrs. cr.
Basic skills and concepts needed for sight-reading, sight-singing, solfege, rhythmic dictation, melodic dictation, and harmonic dictation are introduced, studied, and applied in aural and notated musical examples.

Music Appreciation (F,S)

50.0902-110 3 hrs. cr.
Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

Music Theory (F)

50.0904-111 3 hrs. cr.
Basic fundamentals of music with initiation of harmonic analysis and partwriting. Basic course for music majors; others by consent of the instructor.

Music Theory (S)

50.0904-112 3 hrs. cr.
Sequential course in written harmony, including inversion, seventh chords, and nonharmonic tones. Prerequisite: Mus 111

Class Piano (S)

50.0903-113 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire.

Material varies in accordance with educational purpose. No prerequisite.

Class Piano (F)

50.0903-114 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire. Material varies in accordance with educational purpose. Prerequisite: Mus 113 or equivalent.

Concert Chorale (F,S)

50.0903-121-122-321-322 2 hrs. cr.
Open to all college students. Preparation and performance of great choral works. Prerequisite: permission of the instructor. Each class may be repeated one time for credit.

Opera and Musical Theatre (F)

50.0903-133 2 hrs. cr.
History, production, and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on opera history and opera production with the last ten weeks focusing on the particular musical or light opera selected for production the spring semester of that year.

Musical Theatre and Opera (F)

50.0903-135 2 hrs. cr.
History, production, and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on musicals and their production with the last ten weeks focusing on the particular one act opera(s) and/or operatic excerpts selected for production the spring semester of that year.

Lab Band (F,S)

50.0903-141-142-341,342 1 hr. cr.
A stage band open to all students who are qualified instrumentalists. Preparation and presentation of several concerts during the year, primarily with music of the jazz idiom. Prerequisite: permission of the instructor. Each class may be repeated one time for credit.

Orchestra (F,S)

50.0903-151,152,351,352 2 hrs. cr.
Open to all college students who play an orchestral instrument. Public concerts, performing standard and orchestral literature. Prerequisite: consent of instructor. Each class may be repeated one time for credit.

Collegiates (F,S)

50.0903-161,162,361,362 1 hr. cr.
Small select ensemble, performing all literature from madrigal to modern music written for small vocal ensemble. Prerequisite: audition. Each class may be repeated one time for credit.

Brass Choir (F,S)

50.0903-171,172,371,372 1 hr. cr.
Open to all students with band instrument experience. Performance of literature for brass ensemble. Two meetings per week. Each class may be repeated one time for credit.

Conducting Techniques (F)

50.0903-182 2 hrs. cr.
Baton technique, factors in interpretation, score reading, and rehearsal procedures for instrumental and vocal organizations. Includes experience conducting live rehearsals.

Marching Band (F)

50.0903-191,391 2 hrs. cr.
Open to all qualified students with high school band experience. Fundamentals of drill and presentation of musical marching maneuvers. Prerequisite: permission of instructor. Each class may be repeated one time for credit.

Concert Band (S)

50.0903-192-392 2 hrs. cr.
Open to all qualified students with band instrument experience. Rehearsal and public performances of composite repertoire. Prerequisite: permission of instructor. Each class may be repeated one time for credit.

Sight-singing and Ear-training (F)

50.0903-210 2 hrs. cr.
Sequential course in using the skills and concepts in sight-singing and ear-training. Sight reading of melodies of increasing difficulty. Ear-training emphasis in harmonic dictation. Prerequisite: Mus 109.

Music Theory (F)

50.0904-211 3 hrs. cr.
Modulation, diatonic, seventh chords, altered chords, advanced part-writing procedures. Prerequisite: Mus 112.

Music Theory (S)

50.0904-212 3 hrs. cr.
Secondary dominant chords, augmented triads and sixth chords, advanced modulation, introduction to contemporary techniques. Prerequisite: Mus 211.

Class Piano (F)

50.0903-213 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire. Material varies in accordance with educational purpose. Open to all students, but designed primarily for the music major requiring keyboard competency who has little or no piano background. Prerequisite: Mus 114 or equivalent.

Class Piano (S)

50.0904-214 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire.

Material varies in accordance with educational purpose. Open to all students, but designed primarily for the music major requiring keyboard competency who has little or no piano background. Prerequisite: Mus 213 or equivalent.

INSTRUMENTAL TECHNIQUES (F,S) 1 hr. cr

String Techniques (F)

50.0903-231

Brass Techniques (S)

50.0903-232

Percussion Techniques (F) (Not open to percussion majors)

50.0903-233

Woodwind Techniques (S)

50.0903-234

Class instruction in the orchestral and band instruments, including a study of methods and materials to be used in teaching of beginning students.

Recital Attendance (F,S)

50.0903-240 0 hrs. cr.
Attendance at designated afternoon and evening recitals and concerts is required of all music majors each semester.

Selected Topics in Music (Demand)

50.099-298 1-3 hrs. cr.
Study of special topics in music not included in another course. Prerequisite: permission of instructor.

Vocal Techniques (F,S)

50.0903-310 2 hrs. cr.
Class instruction in tone production of the human voice and the correct usage of vowels and consonants for singing. Development of skill so that each student will be able to sing individually demonstrating correct tone production. Includes vocal methods and solo materials.

History of Music (F)

50.0902-311 3 hrs. cr.
General survey of history of music from Greek period to 18th century.

History of Music (S)

50.0902-312 3 hrs. cr.
From 18th century to the present. Score reading required.

Music for Elementary School (F,S)

13.1312-332 3 hrs. cr.
Methods of teaching music in the elementary classroom and a study of materials to be used.

Music for the Elementary Grades (Demand)
13.1312-333 2 hrs. cr.
Methods of teaching music in the elementary classroom and a study of materials to be used. Restricted to music majors and advanced music students. Prerequisite: Mus 112.

Marching Band Methods (F)
50.0903-411 1 hr. cr.
Procedures needed in organization, promotion, equipping, rehearsing, and performance of a marching band including study of musical repertoire and charting of field maneuvers. For music majors; others by consent of instructor. Prerequisite: 2 semesters marching band, prior to being enrolled in marching band while taking the course.

Form and Analysis (F)
50.0904-420 3 hrs. cr.
Harmonic and formal analysis of composition from the Baroque Era through contemporary music. Prerequisite: Mus 212, or permission of the instructor.

Orchestration (S)
50.0904-431 3 hrs. cr.
Capacities of orchestral instruments. Scoring for various orchestral combinations, including full orchestra. Prerequisite: Mus 212, or permission of instructor.

Music in the Public School (F)
13.1312-432 2 hrs. cr.
Acquaints the music education major with the problems of the administration and supervision of the school music program through the high school level. Includes the place of music in the school program, music equipment, schedules, budget, instructional problems, and public relations in music.

Advanced Conducting Techniques (S)
50.0903-444 2 hrs. cr.
Conducting skills, including irregular beat patterns, advance technical problems, and methods developed for solving them. Prerequisite: Mus 182.

Senior Recital
50.0903-450 0 hrs. cr.
A solo recital is required of all music majors.

Seminar in Music (Demand)
50.0999-498 1-3 hrs. cr.
For upper division music majors or related majors. Topics and methods not included in other courses. Permission of the instructor required.

Independent Study (Demand)
50.0499-499 1-3 hrs. cr.
Structured by the advisor with approval of the department head and school dean. Prerequisite:

site: advanced standing in the major field with a GPA of 3.0 Registration must be approved by the advisor, department head, and school dean.

Applied Music—(Private Lessons)
Major in: Brass, Keyboard or Percussion, String, Woodwind, and Voice. All major applied music offerings may be repeated one time for credit.

50.0903-207	2 hrs. cr.
50.0903-208	2 hrs. cr.
50.0903-407	2 hrs. cr.
50.0903-408	2 hrs. cr.
Elective in the six areas listed above under major.	
50.0903-105	1 hrs. cr.
50.0903-106	1 hrs. cr.
50.0903-305	1 hrs. cr.
50.0903-306	1 hrs. cr.
50.0903-107	2 hrs. cr.
50.0903-108	2 hrs. cr.
50.0903-307	2 hrs. cr.
50.0903-308	2 hrs. cr.

PARALEGAL (PLS)

Introduction To Legal Assistance (F)
22.0103-201 3 hrs. cr.
American legal system with emphasis on the roles, skills, and tasks of the paralegal. Topics include professional ethics, client interviewing, and legal analysis.

Topics in Paralegal Studies (Demand)
22.0199-298 3 hrs. cr.
Special paralegal studies topics of current interest are changed each semester. Students are encouraged to submit areas of interest to the Social Sciences Department.

Business Law I (F,S)
06.0101-301 3 hrs. cr.
(See GB 301).

Business Law II (F,S)
06.0101-302 3 hrs. cr.
(See GB 302).

Legal Research (F,Even,S,Even)
22.0199-302 3 hrs. cr.
Research involved in case preparation; use of the law library and various digests, encyclopedias, reporters, etc., contained therein.

Property (S,Odd)
22.0199-311 3 hrs. cr.
Laws relating to real and personal property with emphasis on procedures and forms used in real estate transactions and conveyances such as deeds, contracts, and leases.

Civil Litigation (S,Odd)
22.0199-312 3 hrs. cr.
Process of civil litigation from filing to appeal including rules for instituting and conducting lawsuits before federal and state courts, rules of evidence and procedure, and preparation of legal forms pertinent thereto.

Family Law (F,Odd)
22.0199-320 3 hrs. cr.
Laws regulating marriage, adoption, divorce, division of property, child custody and support, adult abuse, and termination of parental rights.

Wills, Trusts, and Probate (F,Odd)
22.0199-401 3 hrs. cr.
Law of wills, trusts and intestate succession; includes analysis of the administration, probate of estates, and preparation of legal forms pertinent thereto.

Constitutional Law I (F,Even)
45.1001-431 3 hrs. cr.
(See PSc 431).

Constitutional Law II (S,Odd)
45.1001-432 3 hrs. cr.
(See PSc 432).

Internship (Demand)
22.0119-491 3 hrs. cr.
An applied internship of 135 hours done under the direct supervision of a practicing professional who is directly engaged in a day-to-day application of the law (i.e. judges, attorneys, government officials), as approved by the department head and the school dean.

Senior Seminar (S,Even)
22.0119-498 3 hrs. cr.
Comprehensive analysis and review of selected legal topics to be announced when course is offered. Prerequisite: 9 hrs. of paralegal studies or consent of instructor.

Independent Study
22.0119-499 1-2-3 hrs. cr.
Study and research by the student under the direction and supervision of the instructor/advisor with prior approval by the department head and Dean of Arts and Sciences. Prerequisites: advanced standing in the major field and a minimum GPA of 3.0.

PHILOSOPHY (Phil)

Introduction to Philosophy (F)
38.0101-201 3 hrs. cr.
Comparative survey of major types of philosophy and of representative problems in philosophy.

Ethics (S)

38.0101-212 3 hrs. cr.
Exploration of the problem of value, personal moral attitudes and standards, comparative survey of major ethical systems, and evaluation of the chief ethical struggles in contemporary society.

Topics in Philosophy (Demand)

38.0101-298 3 hrs. cr.
Studies in the variety of philosophical subjects. Topic open.

Comparative Religion (Demand)

38.0101-320 3 hrs. cr.
Philosophical and historical survey emphasizing the world's major living religions.

PHYSICS (Phys)**Fundamentals of Physical Science (F,S)**

40.0101-100 5 hrs. cr.
Basic concepts in the field of physics, chemistry, geology, and astronomy. Emphasis on such environmental topics as energy reserves, chemical and thermal pollution, fossil and nuclear power generation, and population. Lecture and demonstration periods. Prerequisite: Math 20 with a minimum grade of C or qualified for Math 110 on the MMPT.

Essential Skills for Physics (F,S)

40.0801-140 3 hrs. cr.
Physics preparatory class covering vector techniques, geometrical and trigonometrical applications in physics, analysis of one-dimensional motion and setting up word problems. Recommended for students who have not had a high school physics course or who feel that their background in physics is inadequate. 3 hrs. of lecture per week. Prerequisite: Math 140.

Elementary College Physics I (F)

40.0801-151 5 hrs. cr.
Mechanics, property of matter, heat, wave motion, sound and electrical circuits. Four hours of lecture and one 2-hour lab per week. Prerequisite: Math 140.

Elementary College Physics II (S)

40.0801-152 3 hrs. cr.
Magnetism, optics, relativity, radioactivity, nuclear reactions and further study of mechanics including rotational dynamics. Two hours of lecture and one 2-hour lab per week. Prerequisite: Phys 151.

Introduction to Meteorology

40.0401-180 3 hrs. cr.
Principles basic to the understanding of weather and climate. Three lectures per week. Prerequisite: Phys 100 or equivalent. (Does not count toward a physics major.)

General Physics I (F,S)

40.0801-250 5 hrs. cr.
Introductory study of the mechanics of particles and rigid bodies with emphasis on vector methods. Includes the study of heat and temperature. Four hours of lecture and one, 3-hour lab/recitation per week. Prerequisite: Math 150.

General Physics II (F,S)

40.0801-260 5 hrs. cr.
Electricity, magnetism, waves, and geometrical and physical optics. Four hours of lecture and one 3-hour lab recitation class per week. Prerequisite: Phys 250 and Math 250.

Selected Topics in Physical Sci (F,S)

40.0101-298 1-3 hrs. cr.
Special topics in physical science not normally offered in other courses. Prerequisite or co-requisite: Math 130 or equivalent.

Astronomy (Demand)

40.0201-300 3 hrs. cr.
The solar system. Kepler's laws, celestial coordinates and observing. Hertzsprung-Russell diagrams, stellar evolution, pulsars, black holes, nebulae, galaxies, and cosmology. 3 lectures per week. (Does not count toward a Physics Major) Prerequisite: Phys 100 or equivalent and one year of high school algebra.

Modern Physics (F)

40.0801-301 4 hrs. cr.
Wave motion, special theory of relativity, wave-particle experiments, introductory quantum mechanics, and nuclear physics. Prerequisite: Phys 260. Corequisite: Math 260.

Statics (S)

40.0801-312 3 hrs. cr.
Principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. 3 lectures per week. Prerequisite: Phys 250. Corequisite: Math 260.

Classical Mechanics (S,Odd)

40.0801-322 3 hrs. cr.
Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative field of force, central force motion, energy, gravitation, rigid bodies and an introduction to the mechanics of continuous media. 3 hrs. of lecture per week. Prerequisite: Phys 250. Corequisite: Math 322 or permission of instructor.

Thermal Physics (S,Even)

40.0801-341 4 hrs. cr.
Temperature, transfer of heat, laws of thermodynamics, entropy, reversibility and irreversibility, thermal properties of materials, low temperature physics, change of phase, kinetic theory,

statistical mechanics, and use of thermo tables. 4 hours of lecture per week. Prerequisites: Math 250 and Phys 250.

Electronic Circuits (S)

40.0801-372 4 hrs. cr.
Circuit analysis, resonance, transistor characteristics, power supplies, amplifiers, and integrated circuits. Two 3-hr lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys 260. Corequisite: Math 260.

Intermediate Physics Laboratory (F,Odd)

40.0801-381 3 hrs. cr.
Experiments in classical and modern physics, including wave phenomena, heat transfer, electrical measurements, optics, photo-electric effect, and radioactivity. Two 3-hr. labs per week. Prerequisite: Phys 301 or permission of instructor.

Electricity and Magnetism (F,Odd)

40.0801-401 4 hrs. cr.
Includes study of electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties, induced electromotive force, Maxwell's equations and electromagnetic waves. 4 hrs. of lecture per week. Prerequisites: Math 260 and Phys 260.

Quantum Mechanics (Demand)

40.0801-452 3 hrs. cr.
Time independent Schrodinger equation, eigenfunctions, expectation values, differential operators, perturbation theory, multi-electron atoms, and applications to solid state physics. 3 hrs. of lecture per week. Prerequisite: Phys 301 and Math 322.

Selected Topics in Physics and Engineering (Demand)

40.0801-480 3 hrs. cr.
One or more of the following topics for further study: Solid State Physics, Optics, Nuclear Physics, Advanced Mechanics, Circuit Analysis, Thermodynamics, Fluid Mechanics and Heat Transfer, and Mechanics of Materials.

Seminar (F,S)

40.0801-498 1-3 hrs. cr.
Topics of current interest to the student from the areas of physics and engineering. Secondary education majors are required to present several lecture-demonstration programs illustrating the basic concepts in physics at the secondary level. Open to students having a minimum of 18 hours of physics and permission of the instructor.

Independent Study (F,S)

40.0801-499 1-3 hrs. cr.
Course structured by the advisor with approval of the department head. Prerequisite: Advanced

standing with GPA of 3.0 in the major field. Registration in the course must be approved by the advisor, department head, and school dean.

POLITICAL SCIENCE (PS)

Government: U.S., State, Local (F,S)

45.1001-120 3 hrs. cr.
Designed to give students an understanding of their governments, enabling them to keep up with political developments with the goal of becoming informed citizens needed to sustain democracy. A General Education requirement for all Bachelor of Arts and Bachelor of Science degree.

Topics In Political Science (Demand)

45.1001-298 3 hrs. cr.
Special political science topics of current interest to the student or faculty member who offers the class. Subjects and instructors changed each semester. Students are encouraged to suggest possible course topics to the political science faculty.

Introduction to Political Science Methods (Demand)

45.1001-300 3 hrs. cr.
The nature, possibilities, and limitations of political inquiry emphasizing research methods and tools. A valuable course for students who wish to engage in non-library types of research projects.

Political Parties and Elections (F,Even)

45.1001-301 3 hrs. cr.
Analysis of the origins, structure, and functions of political parties; the dynamics of the two-party system; the role of third parties and the election process.

Public Opinion And Pressure Groups (S, Odd)

45.1001-302 3 hrs. cr.
Origins, impact, and measurement of public opinion. Scope, nature, and powers of interest groups in American society with special attention to their role in formulating public opinion and public policy.

Law, Society, And Citizenship (Demand)

45.1001-310 2 hrs. cr.
American legal system with special attention to the organization, methods, processes, and behaviors of the judiciary.

The American Presidency (F,Odd)

45.1001-311 3 hrs. cr.
Politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government.

The Legislative Process (S,Even)

45.1001-312 3 hrs. cr.
Problems of representation, organization of the legislature, participation, and proposals for improved organization. Emphasis on the United States Congress.

State Government (S,Even)

45.1001-320 3 hrs. cr.
General structure, theories, operation, and problems of state government with special emphasis on the government of Missouri.

International Relations (F,Even)

45.0901-321 3 hrs. cr.
Present-day relations and problems among the states of the world and major factors which underline and influence these relations.

International Law (S,Odd)

45.0901-322 3 hrs. cr.
Rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedures employed in protecting their rights and performing their duties.

Comparative Government: Europe (F,Odd)

45.1001-331 3 hrs. cr.
An analysis of the governments of selected European countries emphasizing the development of their political systems both in theory and practice. Comparisons with American governmental institutions.

Comparative Government: Latin America (S, Even)

45.1001-332 3 hrs. cr.
Governments and cultures of selected Latin American countries emphasizing the development of their political systems in both theory and practice.

Municipal Government (F,Odd)

45.1001-342 3 hrs. cr.
Structure, legal status, functions and organization of city, town, and village government in the United States.

Political Theory (F,Odd)

45.1001-411 3 hrs. cr.
Selected Western political philosophies from early recorded history through the present time.

Contemporary Political Thought (S,Even)

45.1001-412 3 hrs. cr.
Twentieth century political ideas.

United States Constitutional History

45.0801-420 3 hrs. cr.
(See History 420). Not for Political Science credit if the student also takes PSc 431 or 432.

Public Administration (Demand)

45.1001-421 3 hrs. cr.
Administrative aspects of government; surveys major sub-fields of public administration, i.e., politics and administration, organizational theory, organizational behavior, management, decision-making, personnel, public budgeting and finance, policy analysis and program evaluation, and administrative law.

Constitutional Law I (F,Even)

45.1001-431 3 hrs. cr.
Political and legal aspects of Supreme Court decision-making, the nature and scope of judicial review, the constitutional relationships between levels and branches of government, and the 1st Amendment rights of freedom of expression.

Constitutional Law II (S,Odd)

45.1001-432 3 hrs. cr.
Legal issues concerning the 1st Amendment areas of free exercise and establishment of religion, the right to privacy, the 14th amendment due process and equal protection clauses, and the rights of the accused in criminal cases.

English Constitutional History

45.0801-450 3 hrs. cr.
(See History 450)

Seminar In Political Science (Demand)

45.1001-498 3 hrs. cr.
Specialized knowledge and/or current research in the discipline. Topics vary by situation and instructor. Students prepare and critique papers based on original research. Prerequisite: 9 hrs of upper division political science.

Independent Study (F,S)

45.1001-499 1-2-3 hrs. cr.
For students who wish to do an in-depth study of some specialized topic or pursue a topic not considered in the department's course offerings. The student will select an advisor from the political science faculty who will structure the independent study in consultation with the student and with the approval of the department head. Prerequisite: junior or senior status and an overall cumulative GPA of 3.0 or better. Registration must be approved by the department head and the school dean.

SOCIOLOGY (Soc)

Introduction to Sociology (F,S)

45.1101-110 3 hrs. cr.
A systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena. Satisfies a General Education requirement for either a Bachelor of Arts or Bachelor of Science degree.

Marriage And Family (F)

45.1101-121 3 hrs. cr.
Paired relationships, marriage as the genesis of family life, elements in the preparation for marriage and parenthood, and the development of family relationships throughout the life cycle.

Introduction To Anthropology (F)

45.1101-155 3 hrs. cr.
Physical and cultural anthropology with particular emphasis on the linkage of human pre-history to the development of culture and the human capacity for society.

Social Problems (F,S)

45.1101-210 3 hrs. cr.
Causes and consequences of economic, political, and social problems that significantly affect society and the quality of life in it. Emphasis on elements and processes within the structure of American society rather than on individual pathologies and behaviors as causes of social problems. Some analysis of possible solutions also included. Prerequisite: Soc 110.

Topics In Sociology (Demand)

45.1101-298 3 hrs. cr.
Special sociology topics of current interest. Subjects and instructors vary each semester. Students are encouraged to submit areas of interest to the Social Sciences Department.

Sociology Of Religion (F)

45.1101-301 3 hrs. cr.
Religion as a major social institution. Compares religions regarding behavioral content. Major attention to the nature of religion, organized religion, and how religion is integrated into society. Limited attention given to the behavioral expectations associated with the major religions of the world. Prerequisite: Soc 110.

Sociology Of Aging (S)

45.1101-306 3 hrs. cr.
A review of aging studies with particular emphasis on needs, problems, areas of concern, aging theories, social services for the elderly, and accumulated data from gerontological research. Analysis of life changes, retirement, and alternative life styles among the elderly. Prerequisite: Soc 110.

Social Class And Inequality (F)

45.1101-311 3 hrs. cr.
Examination of differences in power, prestige and influence. Analysis of the impact of social inequality on people's lives, especially in the United States. Theoretical explanations for the variations in social class. A practical investigation of social class. Prerequisite: Soc 110.

Juvenile Delinquency (S)

45.1101-312 3 hrs. cr.
Analysis of environment and social background for juvenile delinquency behaviors. Investigation of behavioral content and scope of official delinquency. Review of the influences of family, school, peer groups and gangs, and the juvenile justice and corrections system. Prerequisite: Soc 110.

Sociology Of Work And Leisure (S)

45.1101-322 3 hrs. cr.
An analysis of work, occupations, career mobility and job satisfaction as important elements in society. Examination of leisure activities which alter with technological advances and the changing economic base.

Introduction To Social Work (F)

45.1101-331 3 hrs. cr.
The philosophical and historical development of social work as a professional career. Focuses on role of the social worker within the various practice settings. Will entail field trips and guest speakers.

Social Work Practice (S)

45.1101-332 3 hrs. cr.
Emphasizes the development of skills needed to initiate, enhance, or restore relationships between clients and society. Focuses on techniques and case management, analysis of cases, and practical experience in a social agency or community program providing human services. Prerequisite: Soc 331 and junior standing.

Social Psychology (F)

42.1601-341 3 hrs. cr.
(See Psy 341)

Comparative Cultures (S)

45.1101-342 3 hrs. cr.
A comparative study of human society and culture, focusing on theories of culture and cultural institutions as they relate to contemporary pre-industrial peoples. An ethnographic examination of representative groups for purposes of cross-cultural comparison. Prerequisite: Soc 110 or Soc 152 or consent of instructor.

Criminology (F)

45.1101-351 3 hrs. cr.
Social and legal concepts of crime. Review of measurements and data of crime(s) and the theories related to the cause of criminal behaviors. Discussion of profiles of different adult offenders and their behavioral characteristics relative to the major felonies committed in contemporary society. Prerequisite: Soc 110.

Sociology Of Health Care (S)

45.1101-354 3 hrs. cr.
A review of certain sociological data which affect people's health status, health care, and health outlook. Focus on aging, social stratification, demographics, and economic issues relevant to health status. A review of the history, change, and cross cultural comparisons of health care. Prerequisite: Soc 110.

The Study Of Populations (F)

45.1101-361 3 hrs. cr.
A study of changes in human population through an analysis of birth rates, death rates, and migrations. Social demographic analysis of census and independent research data. Various population theories as applied to national and world situations. Concepts of overpopulation, minority groups, and aging. Prerequisite: Soc 110.

Deviant Behavior (S)

45.1101-362 3 hrs. cr.
Theoretical explanations of socially disapproved behavior from the sociological perspective and the application of these concepts to specific forms of deviance. Analysis of the social nature of conforming behavior as a way of increasing understanding of deviant behavior. Prerequisite: Soc 110 and Soc 210 (or) consent of instructor.

Minority Groups And Race Relations (S)

45.1101-382 3 hrs. cr.
The study of racial and cultural groups focusing on the conditions of groups within the United States. Analyzes several general theories or explanations for minority-dominant relations and includes a study of legislation affecting minorities in the U.S. Prerequisite: Soc 110.

Penology And Corrections (F)

45.1101-391 3 hrs. cr.
Philosophy, history, and operations of penitentiary systems with special attention to changes in adult institutions. Examination of the problems associated with prison populations and types of facilities along with sentences, therapeutic models, and community treatment. Prerequisite: Soc 110.

The Community — Rural and Urban (S)

45.1101-402 3 hrs. cr.
Social processes of human groups who share common unities of territory and cultural bonds. Major attention on gemeinschaft-gesellschaft theories as they pertain to national, rural, urban, ethnic, and subcultural communities and how these intertwine in contemporary societies. Prerequisite: 9 hours of Sociology.

Sociological Theory (F)

45.1101-421 3 hrs. cr.
Classical and contemporary theory placed in historical perspective. An analysis and interpretation of social groups, social organizations, and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hrs. of sociology.

Sociological Research Methods (S)

45.1101-432 3 hrs. cr.
Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasis on survey designs employed in sociological inquiry. Prerequisite: 12 hrs. of sociology and 3 hrs. of statistics and Comp 105.

Mass Society And Social Movements (F)

45.1101-445 3 hrs. cr.
Critical analysis of the structural elements of contemporary mass society and their effect on social groups and individuals. The function of social movements as forms of resistance and change in modern society. Prerequisite: 9 hrs. of sociology or consent of instructor.

Internship In Sociology (Demand)

45.1101-496 1-8 hrs. cr.
Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. Prerequisites: 15 hrs. of sociology, junior standing or above, and approval of a departmental committee.

Seminar In Sociology (Demand)

45.1101-498 3 hrs. cr.
For upper division sociology majors. Topics covered and methods used will emphasize student-instructor interest, desire to pursue in-depth research, and ability to assimilate topics. Areas not already treated in other sociology courses. Prerequisite: 15 hrs. of sociology or consent of instructor.

Independent Study (Demand)

45.1101-499 1-2-3 hrs. cr.
Structured by the advisor with the approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0 and approval by the department head and the dean.

THEATRE (Th)

Theatre Performance (F,S)

50.0501-101,102,201,202,301,302,401,402 1 hr. cr.
The performance of a role or service as stage manager which has met department standards.

A student may accumulate up to 5 hours of credit. Credit applied after departmental evaluation at the end of each semester.

Theatre Appreciation (F,S)

50.0501-110 3 hrs. cr.
A basic approach to the what, why, and how of theatre. Sessions deal with dramatic form and style of drama, as well as physical aspects of production. Satisfies 3 semester hours of general education requirement in humanities and fine arts.

Theatre Laboratory (F,S)

50.0501-121,122,221,222,321,322 2 hrs. cr.
A laboratory devoted to mounting the theatre's season. Meets 2 hrs. in sequence twice a week.

Theatre Technology (S,Even)

50.0501-142 3 hrs. cr.
Scenery construction techniques and terminology, technical drawing as applied to theatre design, stage lighting techniques, sound techniques, and stage rigging.

Summer Theatre Production (Demand)

50.0501-201 6 hrs. cr.
Students will be active members of MSSC Repertory Theatre Company serving as actors, designers, and technicians in varied theatre fare. Month of June devoted to preparation, and 4 weeks of 16-20 performances in July.

Oral Interpretation (S,Even)

50.0501-212 3 hrs. cr.
Principles and techniques for the public presentation of oral reading. Selection, analysis, and preparation of different types of literature with emphasis on platform presentation of prose and Readers' Theatre.

Speech for Stage (F,Odd)

50.0501-231 1 hr. cr.
A lecture-demonstration experience designed to develop or improve student's projection, phrasing, emphasis, and vocal resonance.

Costume Technology (F,Odd)

50.0405-232 1 hr. cr.
Basic skills for the stage in areas of sewing, use of patterns, and the selection and use of fabrics. 2 class hrs. in sequence.

Stage Make-up (F,Odd)

50.0501-233 1 hr. cr.
Basic techniques in design and application of stage make-up. Surveys of categories of professional make-up as well as sources and costs of materials. 2 class hrs. in sequence.

Acting I (F,Odd)

50.0501-241 3 hrs. cr.
Basic acting techniques for development of

poise and confidence on stage; stage movement and pantomime; character analysis and creation.

Exploration in Theatre (Demand)

50.0501-298 3 hrs. cr.
Concentrated study on a variety of selected theatre topics. Each offering on a different subject. May be repeated, but same topic only once.

Stage Lighting (Demand)

50.0499-320 3 hrs. cr.
Lighting design approached artistically. The use of light in art, television, theatre, and motion pictures. Prerequisite: Th 142.

History of the Theatre (F,Even)

50.0501-331 3 hrs. cr.
Theatre from primitive time through the Elizabethan period. Theatre and stage architecture, scene design, acting styles, theatre management, and the culture surrounding the theatrical even. Analysis of their relationship to dramatic literature.

History of the Theatre (S,Odd)

50.0501-332 3 hrs. cr.
Plays, playwrights, and dramatic criticism from the Elizabethan and Jacobean era to contemporary theatre and the evolution of the physical theatre, staging and production practices.

Acting II (F,Even)

50.0501-341 3 hrs. cr.
The dynamics of analysis, rehearsal, and performance of scenes from contemporary and classic plays. Emphasis on the actor's relationship to the play and to other actors. Prerequisite: Acting I or permission of instructor.

Directing I (F,Even)

50.0501-351 3 hrs. cr.
A basic approach to theatre management and organization. Techniques and procedures in play selection and mounting a production. Analysis of conventional dramatic structure and exploration of directorial preparation of scripts.

Stage Costume and Design (S,Even)

50.0405-362 3 hrs. cr.
Survey of clothing styles and social manners in western civilization with emphasis upon theory and practical application as it relates to design of the stage costume.

Directing II (S,Odd)

50.0501-372 3 hrs. cr.
Study of the skill and role of the director, script and analysis, casting, production administration, and director-actor relationships. Actual directing experience or a related directing project.

Acting III (S,Even)

50.0501-422 3 hrs. cr.
Lecture and laboratory study of physical manners and speech in relationship to various periods of theatre presentation. Prerequisite: Th 341 or consent of instructor.

Creative Dramatics (Demand)

50.0501-431 3 hrs. cr.
Methods and techniques of teaching dramatic improvisation through the exploration of literature appropriate for dramatic presentation with an emphasis on story telling.

Stage Design (F,Even)

50.0405-441 3 hrs. cr.
Foundations of scenic design, sketching, rendering, and scene painting techniques. Set design as related to various styles of drama.

Theatre Studies (Demand)

50.0501-498 3 hrs. cr.
Seminar in theatre for advanced students. Topic open. Approval of department head. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Registration must be approved by advisor, department head, and school dean.

Independent Study in Theatre (F,S)

50.0501-499 1-3 hrs. cr.
Structured by the advisor with approval of department head. Prerequisite: Advanced standing in the major field with GPA of 3.0. Registration in the course must be approved by advisor, department head and school dean.

Sociological Theory (F)
45.1101-421 3 hrs. cr.
Classical and contemporary theory placed in historical perspective. An analysis and interpretation of social groups, social organizations, and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hrs. of sociology.

Sociological Research Methods (S)
45.1101-432 3 hrs. cr.
Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasis on survey designs employed in sociological inquiry. Prerequisite: 12 hrs. of sociology and 3 hrs. of statistics and Comp 105.

Mass Society And Social Movements (F)
45.1101-445 3 hrs. cr.
Critical analysis of the structural elements of contemporary mass society and their effect on social groups and movements. The function of social movements as forms of resistance and change in modern society. Prerequisite: 9 hrs. of sociology or consent of instructor.

Internship In Sociology (Demand)
45.1101-450 1-4 hrs. cr.
Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. Prerequisite: 15 hrs. of sociology, prior standing or above, and approval of a departmental committee.

Seminar In Sociology (Demand)
45.1101-458 3 hrs. cr.
For upper division sociology majors. Topics covered and methods used will emphasize student-instructor interest, desire to pursue in-depth research, and ability to assimilate topics. Areas not already treated in other sociology courses. Prerequisite: 15 hrs. of sociology or consent of instructor.

Independent Study (Demand)
45.1101-459 1-2-3 hrs. cr.
Structured by the advisor with the approval of the department head and school head. Prerequisite: Advanced standing in the major field with a GPA of 3.0 and approval by the department head and the dean.

THEATRE (TH)

Theatre Performance (ES)
50.0501-101,102,201,202,301,302,401,402 1 hr. cr.
The performance of a role or service as stage manager which has met department standards.

A student may accumulate up to 5 hours of credit. Credit applied after departmental evaluation at the end of each semester.

Theatre Appreciation (F,S)
50.0501-110 3 hrs. cr.
A basic approach to the what, why, and how of theatre. Sessions deal with dramatic form and style of drama, as well as physical aspects of production. Satisfies 2 semester hours of general education requirement in humanities and fine arts.

Theatre Laboratory (ES)
50.0501-121,122,221,222,321,322 2 hrs. cr.
A laboratory devoted to mounting the theatre's season. Meets 2 hrs. in sequence once a week.

Theatre Technology (S,Even)
50.0501-142 3 hrs. cr.
Scenery construction techniques and terminology, technical drawing as applied to theatre design, stage lighting techniques, sound techniques, and stage rigging.

Summer Theatre Production (Demand)
50.0501-201 5 hrs. cr.
Students will be active members of MSSC Repertory Theatre Company serving as actors, designers, and technicians. Month of June devoted to costumes and 4 weeks of 16-20 performances in July.

Oral Interpretation (S,Even)
50.0501-312 3 hrs. cr.
Pencils and techniques for the public presentation of oral reading. Selection, analysis, and preparation of different types of literature with emphasis on platform presentation of prose and Readers Theatre.

Speech for Stage (F,Odd)
50.0501-331 1 hr. cr.
A lecture-demonstration experience designed to develop or improve student's projection, phrasing, emphasis, and vocal resonance.

Costume Technology (F,Odd)
50.0405-232 1 hr. cr.
Basic skills for the stage in areas of sewing, use of patterns, and the selection and use of fabric. 2 class hrs. in sequence.

Stage Make-up (F,Odd)
50.0501-233 1 hr. cr.
Basic techniques in design and application of stage make-up. Surveys of categories of professional make-up as well as sources and tools of materials. 2 class hrs. in sequence.

Acting I (F,Odd)
50.0501-241 2 hrs. cr.
Basic Acting Techniques for development of

poise and confidence as actor/actress. (S,Even)
50.0501-242 2 hrs. cr.
Lecture and laboratory study of physical manner and speech in relationship to various jobs of theatre. (S,Even)
50.0501-288 3 hrs. cr.
Creative Dramatics (Creative)
50.0501-289 3 hrs. cr.
Methods and techniques of teaching drama to children through the exploration of their own spontaneous behavior. (S,Even)
50.0501-290 3 hrs. cr.
Lighting Design approached through the use of light in art. (S,Even)
50.0501-344 1 hr. cr.
Foundations of scenic design, including set design and scenic painting techniques. (S,Even)
50.0501-345 1 hr. cr.
Theatrical lighting design and lighting techniques. (S,Even)
50.0501-346 1 hr. cr.
Sound design and sound reinforcement techniques. (S,Even)
50.0501-347 1 hr. cr.
Stage design and stage construction. (S,Even)
50.0501-348 1 hr. cr.
Stage lighting and stage sound. (S,Even)
50.0501-349 1 hr. cr.
Stage lighting and stage sound. (S,Even)
50.0501-350 1 hr. cr.
Stage lighting and stage sound. (S,Even)

Acting II (S,Even)
50.0501-243 2 hrs. cr.
Advanced Acting Techniques for development of poise and confidence as actor/actress. (S,Even)
50.0501-244 2 hrs. cr.
Advanced Acting Techniques for development of poise and confidence as actor/actress. (S,Even)
50.0501-245 2 hrs. cr.
Advanced Acting Techniques for development of poise and confidence as actor/actress. (S,Even)
50.0501-246 2 hrs. cr.
Advanced Acting Techniques for development of poise and confidence as actor/actress. (S,Even)
50.0501-247 2 hrs. cr.
Advanced Acting Techniques for development of poise and confidence as actor/actress. (S,Even)
50.0501-248 2 hrs. cr.
Advanced Acting Techniques for development of poise and confidence as actor/actress. (S,Even)
50.0501-249 2 hrs. cr.
Advanced Acting Techniques for development of poise and confidence as actor/actress. (S,Even)
50.0501-250 2 hrs. cr.
Advanced Acting Techniques for development of poise and confidence as actor/actress. (S,Even)

Directing I (F,Even)
50.0501-351 3 hrs. cr.
A basic approach to theatre management and organization. Techniques and procedures in play selection and mounting a production. Analysis of conventional dramatic structure and exploration of directorial preparation of scripts.

Stage Costumes and Design (S,Even)
50.0405-382 3 hrs. cr.
Survey of clothing styles and costume design in western civilization with emphasis upon their historical application as it relates to the design of the stage costume.

Directing II (S,Odd)
50.0501-342 3 hrs. cr.
Study of the role and role of the director in the theatre. Includes analysis, casting, rehearsal, and production. (S,Even)
50.0501-343 3 hrs. cr.
Study of the role and role of the director in the theatre. Includes analysis, casting, rehearsal, and production. (S,Even)

THE SCHOOL OF BUSINESS ADMINISTRATION



SCHOOL DEAN:

John W. Tiede

DEGREES AND MAJORS

Bachelor of Science in Business Administration

Accounting
Economics and Finance
General Business
Marketing and Management

Bachelor of Science in Education
Business Education as a single teaching field

Business Education as one of two teaching fields

Bachelor of Science
Management Technology

Associate of Science
Accounting
General Business
Office Administration

One-year Certificate of Achievement
Secretarial Science

ROLE:

The School of Business Administration's role is to provide the necessary managerial and administrative education to prepare students for responsible leadership roles in business and society. As a professional school, the School of Business Administration strives to prepare students to perform successfully in the complex world of business. All academic programs within the school reflect the philosophy that business is an integral part of a dynamic economic, social, and political environment. The pervasive character of business and economic variables in contemporary American society makes study of business principles desirable, both as a separate degree area and as a service to other degree and non-degree students.

The ability to compete in this environment requires a variety of skills, including the ability to express one's self competently in both written and oral forms and to use logical and critical thinking techniques in one's approach to problem solving.

OBJECTIVES:

1. To provide a relevant curriculum which will provide the necessary managerial and administrative education for the School of Business Administration graduate.

2. To prepare the School of Business Administration graduate for leadership roles by stimulating rigorous, imaginative, analytical, and probing attitudes so that the graduates can express themselves competently and apply problem-solving techniques.
3. To possess the necessary faculty committed to teaching excellence, community service, and research.
4. To possess facilities and equipment necessary to foster high quality education in the School of Business Administration.
5. To interact with the business community concerning their educational needs and to serve those needs once they are ascertained.

STUDENT ORGANIZATIONS

The Association of Southern's Business Majors is a local organization which allows student membership by any student interested in business.

Future Secretaries Association is open to all students with an interest in office administration and business education and is sponsored by Professional Secretaries International. Students raise money by working on various typing projects.

Pi Omega Pi is an honorary Business Education fraternity open to students with three semesters or 15 hours credit in business and education and a 3.0 grade point average.

Omicron Delta Epsilon is an honorary economics fraternity open to juniors with a 3.0 overall grade point average and at least 9 hours in economics, with a 3.0 in the economics courses.

The Phi Beta Lambda organization is based on a definite set of goals including development of competent, aggressive business leadership; creation of more interest and understanding of American business enterprise; and participation in worthy undertakings for the improvement of business and citizenship. PBL is open to all business students and serves as a stepping stone to a prominent place in business.

Students in Free Enterprise (SIFE) is a non-profit corporation organized to promote the free enterprise system. The group has participated in national competitions, finishing as high as second on two different occasions.

THE SOUTHERN BUSINESS AND ECONOMIC REVIEW

The Southern Business and Economic Review is published quarterly by the Bureau of Business and Economic Research within the School of Business Administration. Each issue contains local economic indicators and articles of interest to local business people. The review is in its fourth year of publication. The Bureau also maintains a data bank of economic statistics which is available to local business people.

SMALL BUSINESS INSTITUTE

The Small Business Institute allows students to consult with small businesses which request assistance. This provides valuable experience for our senior students. They are able to apply some of the theory they have learned to "real life" situations. The Small Business Administration funds the program and there is no charge to the businesses.

BUSINESS AND ECONOMIC LECTURE SERIES

The School of Business Administration sponsors an annual lecture series. Speakers of interest to both students and local business people appear each semester. Normally they speak both during the day and at night. J. Peter Grace and William S. Rukesyer are two of the prominent speakers who have appeared in the series.

MANAGEMENT DEVELOPMENT CENTER

The School of Business Administration has established a Management Development Center to help local businesses with their training and educational needs. The Center seeks to serve those needs by developing and/or coordinating various seminars for the local businesses.

CORE REQUIREMENTS:

All B.S.B.A. recipients must take the following "core" courses in addition to the courses required in their major:

Business Administration Core Requirements:

	Semester	hours
Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
Econ 201	Principles of Economics-Macro	3

Econ 202	Principles of Economics-Micro	3
GB 301	Business Law I	3
GB 320	Business Communications	3
GB 321	Business Statistics I	3
GB 337	Managerial Data Processing	3
MM 300	Principles of Marketing	3
MM 350	Principles of Management	3
Econ 350	Financial Management	3
MM 452	Business Policy	3
Required Elective*		3
Choose one from:		
GB 302	Business Law II	
Econ 300	Money and Banking	
GB 322	Business Statistics II	
MM 441	Organizational Behavior	
		39

*The required elective may not be "double-counted" as part of the major requirements.

Minor in Business:

Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
GB 337	Managerial Data Processing	3
Econ 202	Principles of Economics-Micro	3
Econ 350	Financial Management	3
MM 300	Principles of Marketing	3
MM 350	Principles of Management	3
		21

ACCOUNTING

FACULTY:

Barrett, Cunningham, Finke, Goode, Huey, Paapanen

Majors in accounting are available under both the B.S.B.A. degree and the A.S. degree. The B.S.B.A. accounting major course of study is designed to prepare students to sit for the C.P.A. examination or to enter private or governmental accounting in a managerial position.

The A.S. accounting major course of study is designed to prepare students for book-keeping tasks which are a part of the accounting function. A graduate with this degree would work at the first level in private accounting or serve as a clerk in a C.P.A. firm.

Requirements for a Bachelor of Science in Business Administration with a major in Accounting:

	Semester Hours
General Education (Page 36)	46
Business Core (Page 102)	39
Accounting Major:	23
Acct 312 Intermediate Accounting I	4
Acct 322 Intermediate Accounting II	4
Acct 310 Cost Accounting	3
Acct 402 Advanced Accounting	3
Acct 401 Tax Accounting	3
Acct 411 Auditing	3
Acct 420 Accounting Theory	3
Electives	16-22
124	

Requirements for an Associate of Science with a major in Accounting:

	Semester Hours
General Education Requirements (Page 38)	24
Accounting Major:	40
GB 320 Business Communications	3
GB 115 Business Math/Microcomputers	3
Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
Acct 312 Intermediate Accounting I	4
Econ 201 Principles of Economics-Macro	3
Econ 202 Principles of Economics-Micro	3
GB 337 Managerial Data Processing	3
Acct 310 Cost Accounting	3
MM 350 Principles of Management	3
GB 301 Business Law I	3
Acct 401 Tax Accounting	3
Elective: (Must be selected from Business Law II, Auditing, or Business Statistics I)	3
64	

Suggested Orders of Study

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Major Code 0502
Accounting Major

FRESHMAN YEAR

Course	Hours
1st Semester	
Eng 101 Composition	3
Math 131 Finite Math	3
PSc 120 Government: U.S., State, & Local	3
HPER 101 Intro to P.E.	2
Elective [GB 115 Business Math/Microcomputers]	3
Psy 120 Freshman Orientation	1
15	
2nd Semester	
Eng 102 Composition (Eng 101)	3
Gen Ed [Bio 101 General Biology or equivalent]	4
Gen Ed [Comm 100 Oral Comm]	3
Gen Ed [Humanities: Fine Arts]	3
HPER 160 Personal Health	2
15	

SOPHOMORE YEAR

Course	Hours
1st Semester	
Acct 201 Principles of Accounting I (Math 131)	3
Econ 201 Principles of Economics-Macro	3
GB 320 Business Communications (Eng 102)	3
Gen Ed [Hist 110, or 120, U.S. History]	3
Gen Ed [Humanities: Literature]	3
15	
2nd Semester	
Acct 202 Principles of Accounting II (Acct 201)	3
Econ 202 Principles of Economics-Micro	3
Gen Ed [Phys 100 Fundamentals of Physical Science]	5
Gen Ed [Humanities: Fine Arts]	3
Elective	3
17	

JUNIOR YEAR

Course	Hours
1st Semester	
Acct 312 Intermediate Accounting I (Acct 202)	4
Acct 310 Cost Accounting (Acct 202)	3
GB 301 Business Law I	3
MM 350 Principles of Management	3
MM 300 Principles of Marketing (Econ 201, 202)	3
16	
2nd Semester	
Acct 322 Intermediate Accounting II (Acct 312)	4
Acct 401 Tax Accounting (Acct 202)	3
GB 302 [Business Law II]	3
GB 321 Business Statistics I (Math 131)	3
GB 337 Managerial Data Processing (GB 115 or Microcomputer Familiarity)	3
16	

SENIOR YEAR

1st Semester		
Acct 411	Auditing (Acct 322)	3
Econ 350	Financial Management (Econ 202, Acct 202)	3
Electives [Government Accounting, 3 hours]		9
		15

2nd Semester		
Acct 402	Advanced Accounting (Acct 322)	3
Acct 420	Accounting Theory (Acct 322)	3
MM 452	Business Policy (Econ 350, MM 300, MM 350)	3
Electives [GB 437, Selection of Hardware/Software for Business - 3 hours] (GB 337 or CIS 115 and 120)		6
		15

() Prerequisites
[] Dept Recommendations

For additional information contact:
Dean of School of Business Administration
Office: 117 Business School Building
Phone: Ext. 319

ASSOCIATE OF SCIENCE

Major Code 5002
Accounting Major

FRESHMAN YEAR

1st Semester		
Course		Hours
Acct 201	Principles of Accounting I	3
Eng 101	Composition	3
Gen Ed	[PSc 120 or Hist 110]	3
GB 115	Business Math/Microcomputers	3
Math 30	Intermediate Algebra or Math 110 [Math 131]	3
Psy 120	Freshman Orientation	1
		16

2nd Semester		
Acct 202	Principles of Accounting II (Acct 201)	3
Gen Ed	[Psy 100 or Soc 110]	3
Comm 100	Oral Communications	3
Gen Ed	(Humanities or Fine Art)	3
GB 320	Business Communications	3
HPER 101	Intro to P.E.	2
		17

SOPHOMORE YEAR

1st Semester		
Acct 312	Intermediate Accounting I (Acct 202)	4
Acct 310	Cost Accounting (Acct 202)	3
GB 301	Business Law I	3
Gen Ed	[Science]	4-5
Econ 201	Principles of Economics-Macro	3
		17-18

2nd Semester		
Acct 401	Tax Accounting (Acct 202)	3
MM 350	Principles of Management	3
Econ 202	Principles of Economics-Micro	3
GB 337	Managerial Data Processing (GB 115 or microcomputer familiarity)	3
Elective in Business [Acct 411, GB 302, GB 321]		3
		15

() Prerequisite
[] Dept Recommendation

For additional information contact:
Dean of School of Business Administration
Office: 117 Business School Building
Phone: Ext. 319

ECONOMICS AND FINANCE

FACULTY:

Foster, Hamilton, Jaswal, Larimore, Leitle, Marion, Memon, Miller

The B.S.B.A. Economics and Finance major course of study is designed to prepare graduates for managerial positions in financial institutions, corporate research, forecasting, government, and other public and private sector positions, as well as for graduate study.

Requirement for a Bachelor of Science in Business Administration with a major in Economics and Finance:

	Semester Hours
General Education (Page 36)	46
Business Core (Page 102)	39
Economics and Finance Major:	18
(1) Required:	12
Econ 300	Money and Banking
Econ 401	Microeconomic Analysis
Econ 402	Macroeconomic Analysis
Econ 411	Investments

(2) Plus 2 courses from the following:	6
Econ 302	Economic Growth and Development
Econ 312	Economic Resources
Econ 412	Urban and Regional Economics
Econ 498	Seminar in Economics and Finance
GB 322	Business Statistics II
Hist 315	Economic History of the U.S.
Geo 222	Economic Geography
Econ 330	Principles of Insurance

Electives **21-27**
124-130

Suggested Order of Study

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Major Code 0504
Economics and Finance Major

FRESHMAN YEAR

1st Semester			Hours
Course			
Math 131	Finite Math		3
Eng 101	Composition		3
PSc120	U.S., State & Local Government		3
[GB 115 Business Math/Microcomputers]			3
Psy 120	Freshman Orientation		1
Elective			3
			16

2nd Semester			
Eng 102	Composition (Eng 101)		3
Hist 110 or 120	U.S. History		3
Gen Ed	[Comm 100 Oral Comm]		3
Gen Ed	[Fine Arts]		3
Gen Ed	[Fine Arts]		3
HPER 101	Intro to P.E.		2
			17

SOPHOMORE YEAR

1st Semester			
Acct 201	Principles of Accounting I (Math 131)		3
Econ 201	Principles of Economics-Macro		3
Gen Ed	[Bio 100 or equiv.]		4-5
Gen Ed	[Humanities: Literature]		3
HPER 160	Personal Health or Physical Activities		2
			15-16

2nd Semester			
Acct 202	Principles of Accounting II		3
Econ 202	Principles of Economics-Micro		3
Gen Ed	[Phys 100 or equiv.]		5
GB 320	Business Communications		3
Elective			3
			17

JUNIOR YEAR

1st Semester			
Econ 300	Money & Banking (Econ 201 & 202)		3
GB 301	Business Law I		3
GB 321	Business Statistics I (Math 131)		3
MM 300	Principles of Marketing (Econ 201, Econ 202)		3
MM 350	Principles of Management		3
			15

2nd Semester			
Econ 350	Financial Management (Econ 201, 202, Acct 201, 202)		3
Economics Elective (Econ 201, 202)			3
GB 337	Managerial Data Processing (GB 115 or microcomputer familiarity)		3
Required Business Elective, choose from:			
GB 302, GB 322, MM 441			3
Economics Elective (Econ 201, 202)			3
			15

SENIOR YEAR

1st Semester			
Econ 401	Microeconomic Analysis (Econ 201, 202)		3
Econ 411	Investments (Econ 201, 202)		3
Economics Elective (Econ 201, 202)			3
Electives			6
			15

2nd Semester		
MM 452	Business Policy (Econ 350, MM 300, MM 350)	3
Econ 402	Macroeconomic Analysis (Econ 201, 202)	3
Economics Elective (Econ 201, 202)		3
Electives		6
		15

() Prerequisites
[] Dept Recommendations

For additional information contact:
Dean of School of Business Administration
Office: 117 Business School Building
Phone: Ext. 319

GENERAL BUSINESS

FACULTY:

Compton, Culwell, Finke, Gray, Grim, Johnson, Leitle, Miller, Rusley, Tiede

The B.S.B.A. General Business major course of study prepares generalists in the field of business. These graduates will expect to be hired for entry level management positions or to pursue graduate degrees in Business Administration and Economics. The A.S. General Business major course of study prepares graduates for supervisory line positions, such as foremen, or as owner-operators of a private business.

Requirements for a Bachelor of Science in Business Administration with a major in General Business:

Semester Hours

General Education (Page 36)	46
Business Core (Page 102)	39
General Business Major:	15

(1) One additional course from each of the following areas:

Accounting	3
Economics and Finance	3
Marketing and Management	3
	9

(2) Two Business and Economic electives, one of which must be upper division

Electives	24-30
	124

Requirements for an Associate of Science in General Business:

Semester Hours

General Education (Page 38)	24
General Business Major:	38
GB 115 Business Math/Microcomputers	3

Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
Econ 201	Principles of Economics-Macro	3
Econ 202	Principles of Economics-Micro	3
GB 301	Business Law I	3
GB 302	Business Law II	3
MM 300	Principles of Marketing	3
MM 350	Principles of Management	3

Electives:

(Must be selected from the business areas of Personnel Management, Promotional Strategy, Retailing, Salesmanship, and Business Communication. Selections from psychology and computer science are also valid, with approval from advisor.)

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Suggested Orders of Study

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Major Code 0501
General Business Major

FRESHMAN YEAR

1st Semester	Course	Hours
	[GB 101 Intro to Business]	3
	Gen Ed [Fine Arts]	3
	Eng 101 Composition	3
	Math 131 Finite Math	3
	Elective	3
	Psy 120 Freshman Orientation	1
		16

2nd Semester

Eng 102	Composition (Eng 101)	3
Gen Ed	[Hist 110 or 120]	3
PSc120	Government: U.S., State & Local	3
Gen Ed	[Comm 100 Oral Communications]	3
[GB 115	Business Math/Microcomputers]	3
HPER 101	Intro P.E.	2
		17

SOPHOMORE YEAR

1st Semester	Course	Hours
Acct 201	Principles of Accounting I (Math 131)	3
Econ 201	Principles of Economics-Macro	3
Gen Ed	[Bio 101]	4
Gen Ed	[Humanities]	3
HPER 160	Personal Health	2
		15

2nd Semester	Course	Hours
Econ 202	Principles of Economics-Micro	3
GB 320	Business Communications	3
Acct 202	Principles of Accounting II (Acct 201)	3
Gen Ed	[Phys 100]	5
Gen Ed	[Fine Arts]	3
		17

JUNIOR YEAR

1st Semester	Course	Hours
GB 301	Business Law I	3
GB 321	Business Statistics I (Math 131)	3
MM 300	Principles of Marketing (Econ 201 and 202)	3
Required Accounting Elective (Acct 201, 202)		3
MM 350	Principles of Management	3
		15

2nd Semester	Course	Hours
GB 337	Managerial Data Processing (GB 115 or microcomputer familiarity)	3
Econ 350	Financial Management (Acct 201, 202, Econ 201, 202)	3
Required Business elective, select one from:		3
GB 302, Econ 300, MM 441, GB 322		3
Electives		8
		17

SENIOR YEAR

1st Semester	Course	Hours
Elective in Econ 300 or above		3
Elective in Bus 300 or above		3
Electives 300 or above		9
		15

2nd Semester	Course	Hours
MM 452	Business Policy (Econ 350, MM 300, MM 350)	3
Elective in Marketing & Management 300 or above		3
Elective in Business 300 or above		3
Electives		6
		15

() Prerequisites
[] Dept Recommendation

For additional information contact:
Dean of School of Business Administration
Office: 117 Business School Building
Phone: Ext. 319

ASSOCIATE OF SCIENCE

Major Code 5001
General Business Major

FRESHMAN YEAR

1st Semester	Course	Hours
Acct 201	Principles of Accounting I (Math 131)	3
Gen Ed	[Psy 100 or Soc 110]	3
GB 115	Business Math/Microcomputers	3
Eng 101	Composition	3
Gen Ed	[Math 131]	3
Psy 120	Freshman Orientation	1
		16

2nd Semester		
Acct 202	Principles of Accounting II (Acct 201)	3
Econ 201	Principles of Economics-Macro	3
Gen Ed	[Hist 110 or PSc 120]	3
Comm 100	Oral Communications	3
HPER 101 or 160		2
Gen Ed	[Literature or Fine Art]	3
		17

SOPHOMORE YEAR

1st Semester		
Business Elective [GB 320 Business Communications]		
GB 301	Business Law I	3
MM 350	Principles of Management	3
Econ 202	Principles of Economics-Micro	3
Business Elective		3
		15

2nd Semester		
MM 300	Principles of Marketing (Econ 201, 202)	3
Business Elective		3
Gen Ed	[Bio 101 or Phys 100]	4-5
GB 302	Business Law II	3
Business Elective		3
		16-17

- () Prerequisites
[] Dept Recommendation

For additional information contact:
Dean of School of Business Administration
Office: 117 Business School Building
Phone: Ext. 319

MARKETING AND MANAGEMENT

FACULTY:

Baack, Foster, Johnson, Larimore, Marion, Miller

The B.S.B.A. Marketing and Management major course of study prepares graduates for positions in either marketing or management. A typical management position would be in personnel management. The typical marketing positions would include retailing, sales management, and promotion.

Requirements for a Bachelor of Science in Business Administration with a major in Marketing and Management:

General Education (Page 36)	Semester Hours
Business Core (Page 102)	46
Marketing and Management Major	39
(1) Required:	
4 of the 5 following courses:	12
MM 312 Retailing	
MM 352 Personnel Management	

MM 401 Promotional Strategy
MM 412 Marketing Management
MM 431 Operations Management

(2) Plus two courses from the following: 6
MM 441 Organizational Behavior
MM 432 Consumer Behavior
MM 470 Marketing Research
MM 321 Salesmanship
GB 410 Small Business Management

The fifth course not taken in Sub-section I

Electives

21-27
124

Suggested Order of Study

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Major Code 0506
Marketing and Management Major

FRESHMAN YEAR

1st Semester		
Course		Hours
Gen Ed	[Fine Arts]	3
Eng 101	Composition	3
Math 131	Finite Math	3
PSc 120	Government: U.S., State & Local	3
Elective	[OA 101 Typewriting I]	3
Psy 120	Freshman Orientation	1
		16

2nd Semester		
Eng 102	Composition	3
Hist 110	U.S. History	3
Elective	[GB 115 Business Math/ Microcomputers]	3
Gen Ed	[Comm 100 Oral Comm]	3
Gen Ed	[Fine Arts]	3
HPER 101	Intro to P.E.	2
		17

SOPHOMORE YEAR

1st Semester		
Acct 201	Principles of Accounting I (Math 131)	3
Econ 201	Principles of Economics-Macro	3
Gen Ed	[Bio 101 General Biology or equiv.]	4
Gen Ed	[Humanities or Literature]	3
HPER 160	Personal Health	2
		15

2nd Semester		
Acct 202	Principles of Accounting II (Acct 201)	3
Econ 202	Principles of Economics-Micro	3
GB 320	Business Communications	3
Phy 100	Fundamentals of Physical Science or equiv.	5
Electives		3
		17

JUNIOR YEAR

1st Semester		
MM 300	Principles of Marketing (Econ 201, 202)	3
MM 350	Principles of Management	3
GB 301	Business Law I	3
GB 321	Business Statistics I (Math 131)	3
Elective		3
		15

2nd Semester		
MM 312	Retailing (MM 300)	3
MM 352	Personnel Management (MM 350)	3
GB 337	Managerial Data Processing (GB 115 or microcomputer familiarity)	3
Econ 350	Financial Management (Acct 201, 202, Econ 201, 202)	3
Required Business Elective		
Choose one from: GB 302, Econ 300, GB 322		
		15

SENIOR YEAR

1st Semester		
MM 321	Salesmanship (MM 300)	3
MM 412	Marketing Management (MM 300)	3
MM 431	Operations Management (GB 321)	3
MM 441	Organizational Behavior (MM 350)	3
Electives		3
		15

2nd Semester		
MM 452	Business Policy (Econ 350, MM 300, MM 350)	3
MM 401	Promotional Strategy (MM 300)	3
Electives	[MM 470 Marketing Research, MM 432 Consumer Behavior, GB 410 Small Business Management]	9
		15

- () Prerequisites
[] Dept Recommendation

For additional information contact:
Dean of School of Business Administration
Office: 117 Business School Building
Phone: Ext. 319

BACHELOR OF SCIENCE IN MANAGEMENT TECHNOLOGY

The B.S. Management Technology major course of study is for students who have already received an Associate degree in a technical field or other technical preparation approved by the advisor and school dean, and who desire to obtain the necessary business skills to become technical supervisors or first line managers. Students *must* apply for admission to the program in the first semester of their junior year.

Requirements for a Bachelor of Science in Management Technology:

General Education (Page 36)	46
Management Technology Major:	42

(1) Required:

Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
GB 301	Business Law I	3
GB 302	Business Law II	3
GB 320	Business Communications	3
Econ 201	Principles of Economics-Macro	3
Econ 202	Principles of Economics-Micro	3
Econ 350	Financial Management	3
MM 300	Principles of Marketing	3
MM 350	Principles of Management	3
MM 431	Operations Management	3
		33

(2) Three additional courses selected from:

Acct 310	Cost Accounting
GB 321	Business Statistics I
GB 337	Managerial Data Processing*
MM 401	Promotional Strategy
MM 412	Marketing Management
MM 352	Personnel Management
MM 452	Business Policy
	9

Electives (includes courses already taken at Associate level) **36-42**
124

*Students obtaining an A.S. in Computer Science may not choose GB 337 as a required elective.

OFFICE ADMINISTRATION AND BUSINESS EDUCATION

FACULTY:

Compton, Culwell, Grim, Rusley

Secretarial training is available under both an Associate of Science degree and a One-year Certificate. The A.S. Office Administration major course of study provides both secretarial skills and the nec-

essary business skills for a graduate to manage an office. The One-year Certificate in the Secretarial Science major course of study prepares a recipient to function as a clerk-typist.

Requirements for Associate of Science in Office Administration:

General Education (Page 38)	24
Office Administration Major:	39

Acct 201	Principles of Accounting I	3
GB 320	Business Law I	3
GB 301	Business Communications	3
OA 200	Typewriting III	3
OA 220	Dictation and Transcription	3
OA 230	Secretarial Procedures	3
OA 231	Secretarial Machines	3
OA 240	Records Management	3
OA 250	Introduction to Word Processing	3

Electives: (May include prerequisite courses to OA 200 and OA 220 if needed. Others must be selected from MM 350, Principles of Management; Acct 202, Principles of Accounting II; Econ 201, Principles of Economics-Macro; Econ 202, Principles of Economics-Micro; or GB 115, Business Math/Microcomputers. Selections from Psychology and Computer Science are also valid, with approval from advisor.) **12**

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Requirements for One year Certificate of Achievement in Secretarial Science:

OA 120	Intermediate Shorthand	3
OA 102	Typewriting II	3
GB 115	Business Math/Microcomputers	3
Acct 201	Principles of Accounting I	3
Eng 101	Composition	3
GB 320	Business Communications	3
OA 200	Typewriting III	3
OA 220	Dictation and Transcription	3

OA 231	Secretarial Machines	3
Comm 100	Oral Communications	3

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Suggested Order of Study

ASSOCIATE OF SCIENCE

Major Code 5005
Office Administration

FRESHMAN YEAR

1st Semester	Course	Hours
Gen Ed	[Psy 100 or Soc 110]	3
Comm 100	Oral Communications	3
Eng 101	Composition	3
Math 131	[Finite Math]	3
Psy 120	Freshman Orientation	1
Elective	[GB 115 Business Math/Microcomputers]	3
		16

2nd Semester	Course	Hours
GB 320	Business Communications	3
OA 200	Typewriting III	3
Gen Ed	[Literature or Fine Art]	3
HPER 101 or HPER 160		2
Gen Ed	[PSc 120 or Hist 110]	3
Elective in Business		3
		17

SOPHOMORE YEAR

1st Semester	Course	Hours
OA 213	Secretarial Machines (OA 102)	3
Acct 201	Principles of Accounting I (Math 131)	3
GB 301	Business Law I	3
Electives in Business		6
		15

2nd Semester	Course	Hours
OA 230	Secretarial Procedures (OA 102)	3
OA 220	Dictation & Transcription (OA 120)	3
OA 250	Word Processing (OA 102)	3
Gen Ed	[Bio 100 or Phys 100]	4-5
OA 240	Records Management	3
		16-17

Business electives may include prerequisite courses to OA 200 and OA 220 if needed. Others should be selected from Principles of Management, Accounting, Economics, or Business Math. Psychology or Computer Science courses may be selected with approval of advisor.

[] Dept Recommendation
() Prerequisites

For additional information contact:
Dean of School of Business Administration
Office: 117 Business School Building
Phone: Ext. 319

Suggested Order of Study

SECRETARIAL-TYPIST CERTIFICATE

Major Code 5065
One-year Schedule

1st Semester		Hours
Course		
Comm 100	Oral Communications	3
OA 102	Typewriting II	3
OA 120	Intermediate Shorthand	3
Eng 101	Composition	3
OA 231	Secretarial Machines	3
		15

2nd Semester		Hours
GB 115	Business Math/Microcomputers	3
OA 200	Typewriting III	3
OA 220	Dictation and Transcription (OA 120 & OA 02)	3
GB 320	Business Communications	3
Acct 201	Principles of Accounting I	3
		15

() Prerequisites

For additional information contact:
Dean of School of Business Administration
Office: 117 Business School Building
Phone: Ext. 319

BACHELOR OF SCIENCE IN EDUCATION (BUSINESS MAJOR)

The B.S.E. Business major course of study prepares graduates to teach Business as either a single or dual field at the secondary level.

Requirements for Bachelor of Science in Education with Business as a single teaching field (Plan B):

		Semester	Hours
General Education (Page 36)			46
Education courses (Page 117, 118)			35
Business Major:			42
OA 102*	Typewriting II	3	
OA 200*	Typewriting III	3	
OA 120*	Intermediate Shorthand	3	
OA 220*	Dictation & Transcription	3	
Acct 201	Principles of Accounting I	3	
Acct 202	Principles of Accounting II	3	
Accounting - Choose one:		3	
Acct 312	Intermediate Accounting I		
Acct 310	Cost Accounting		
Acct 401	Tax Accounting		
GB 337	Managerial Data Processing	3	

Econ 201	Principles of Economics-Macro	3
GB 320	Business Communications	3
GB 301	Business Law I	3
OA 250	Intro to Word Processing	3
GB 312	Principles of Business Education	3
MM 350	Principles of Management	3
Recommended Electives (but not required):		
OA 230	Secretarial Procedures	
GB 115	Business Math/Microcomputers	
OA 231	Secretarial Machines	
Elective		1-4
		124

*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 42 hour requirement.

Requirements for Bachelor of Science in Education with Business as one of two teaching fields (Plan A):

General Education (Page 36)		46
Education Courses (Page 117, 118)		35
Business Major:		33
OA 102*	Typewriting II	3
OA 200*	Typewriting III	3
OA 120*	Intermediate Shorthand	3
OA 220*	Dictation & Transcription	3
Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
Accounting (select one):		3
Acct 312	Intermediate Accounting I	
Acct 310	Cost Accounting	
Acct 401	Tax Accounting	
Econ 201	Principles of Economics-Macro	3
GB 320	Business Communications	3
GB 301	Business Law I	3
GB 337	Managerial Data Processing	3
Recommended electives (but not required):		

GB 115	Business Math/Microcomputers
OA 231	Secretarial Machines
OA 250	Introduction to Word Processing

Courses from second teaching field

30
144

*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses to meet the 33 hours requirement.

Suggested Order of Study

BACHELOR OF SCIENCE

Major Code 0838
Business Education
Plan B—Single Teaching Field

FRESHMAN YEAR

1st Semester		Hours
Course		
Eng 101	Composition	3
Hist 110	U.S. History	3
Gen Ed	[Fine Arts]	3
Psy 110	Psychology of Human Development	5
HPER 101	Intro to P.E.	2
Psy 120	Freshman Orientation	1
		17

2nd Semester		Hours
Eng 102	Composition (Eng 101)	3
PSc 120	Government: U.S., State, & Local	3
Gen Ed	[Humanities or Fine Arts]	3
Math 131	Finite Math	3
Psy 302	Exceptional Child (Psy 110)	2
Elective	[GB 115, Bus Math/Microcomputers]	3
		17

SOPHOMORE YEAR

1st Semester		Hours
Econ 201	Principles of Economics Macro	3
Acct 201	Principles of Accounting I (Math 131)	3
Gen Ed	[Bio 101]	4
Gen Ed	[Humanities or Fine Arts]	3
HPER 160	Personal Health	3
Ed 300	Clinical Experience	2
		18

2nd Semester		Hours
Gen Ed	[Econ 202 Principles of Economics-Micro]	3
Acct 202	Principles of Accounting II (Acct 201)	3
GB 320	Business Communications (Eng 102)	3
Gen Ed	Phy 100	5
Comm 103	Business and Professional Speech	3
		17

JUNIOR YEAR

1st Semester

Acct 312	Intermediate Accounting I or	
Acct 310	Cost Accounting or Acct 410 Tax	
	Accounting (Acct 202)	3
GB 301	Business Law I	3
OA 120	Intermediate Shorthand (OA 111)	3
MM 350	Principles of Management	3
OA 102	Typewriting II (OA 101)	3

2nd Semester

[GB 302 Business Law II]		3
OA 200	Typewriting III (OA 102)	3
OA 220	Dictation and Transcription	
	(OA 120)	3
Psy 310	Educational Psychology	2
GB 337	Managerial Data Processing	
	GB 115 or microcomputer	
	familiarity)	3
Educ 422	Reading in Secondary School	2

SENIOR YEAR

1st Semester

[OA 231 Secretarial Machines]		3
OA 250	Intro to Word Processing	
	(OA 102)	3
Ed 330	Structure of Teaching	2
Ed 331	Microteaching	2
GB 312	Principles of Business Ed	3
Ed 370	Instructional Media	2

2nd Semester

Professional Semester

- () Prerequisites
[] Dept Recommendation

For additional information contact:
Dean of School of Business Administration
Office: 117 Business School Building
Phone: Ext. 319

Students with proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in subjects, the student will substitute other courses in order to meet the 42 hours requirement.

SCHOOL OF BUSINESS

COURSE DESCRIPTIONS

ACCOUNTING (Acct)

Principles of Accounting I (F,S)

06.0201-201 3 hrs. cr.
Fundamental principles of accounting as applied to modern business practice. Study of the complete accounting cycle and analysis of balance sheets and income statements. Emphasis on a single owner business. Prerequisite or corequisite: Math 131.

Principles of Accounting II (F,S)

06.0201-202 3 hrs. cr.
A continuation of Accounting 201 with emphasis on corporation accounting. Prerequisite: Acct 201.

Cost Accounting (F,S)

06.0201-310 3 hrs. cr.
Study of accounting cost systems providing information generation for managerial planning and control. Special emphasis on product and process cost systems as applied to industrial enterprise. Prerequisite: Acct 202.

Intermediate Accounting I (F,S)

06.0201-312 4 hrs. cr.
The first of two courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). The course is organized in four major areas: (1) a study of the environment of financial accounting and the basic theoretical considerations underlying financial accounting concepts and standards; (2) a review of the financial accounting process from transaction analysis to the financial statements; (3) accounting for current assets; (4) accounting for property, plant, and equipment assets and intangible assets. Prerequisite: Acct. 202.

Intermediate Accounting II (F,S)

06.0201-322 4 hrs. cr.
The second of two courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). The course is organized in four major areas: (1) accounting for current liabilities, long-term liabilities and long-term investments; (2) study of shareholders' equity and earnings per share; (3) accounting for pensions, leases and income taxes; (4) financial statement reporting and analysis. Prerequisite: Acct 312.

Tax Accounting (F,S)

06.0201-401 3 hrs. cr.
Procedures for reporting federal income taxes with emphasis on income and deductions for individuals. Practice is given in preparing federal income tax returns. Prerequisite: Acct 202 or permission.

Advanced Accounting (S)

06.0201-402 3 hrs. cr.
Application of accounting principles of partnerships, branch accounting, business combinations, consolidated statements, segment reporting, reporting by multinational companies, bankruptcy and corporate reorganization, estates and trusts. Prerequisite: Acct 322.

Auditing (F,S)

06.0201-411 3 hrs. cr.
An overview of the certified public accounting profession with special attention to auditing standards, professional ethics, the legal liability inherent in the attest function, the study and evaluation of internal control, the nature of evidence, the growing use of statistical sampling, the impact of electronic data processing, and performing an audit. Prerequisite: Acct 322.

C.P.A. Problems [Demand]

06.0201-412 3 hrs. cr.
A course designed to guide the student in preparing for the Uniform Certified Public Accountant Examination. Topics include methods of studying for the Examination, lecture, problem solving exercises on Examination subjects, and a review of appropriate theoretical and technical pronouncements. Prerequisite: 21 hours of accounting including Acct 411, or senior standing and permission of the instructor.

Accounting Theory (S)

06.0201-420 3 hrs. cr.
Study of the theory of income, asset valuation, and history of accounting thought. Critical discussion of the authoritative pronouncements of the Financial Accounting Standards Board. Provides a coherent set of logical principles that form the general frame of reference for the evaluation and development of sound accounting principles. Prepares the student for the C.P.A. Theory Examination. Prerequisite: Acct 322.

Governmental & Institutional Accounting (F)

06.0201-421 3 hrs. cr.
Study of accounting principles, standards, and procedures that apply to nonprofit type organizations such as state and local government, schools, hospitals, and churches. Prerequisite: Acct 312.

Internship in Public Accounting [Demand]

06.0201-491 1-8 hrs. cr.
Selected senior accounting students serve an internship of approximately 60 work hours per credit hour earned as junior accountants on the staff of practicing certified public accountants and/or private industry. The program is supervised by the faculty. Oral and written reports are required. Prerequisites: Acct 322, 401, 411 and/or consent of the internship committee.

Seminar in Accounting [Demand]

06.0201-498 1-3 hrs. cr.
A seminar for upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite:

Senior standing or permission. Examples of seminars offered in the past are:

- 498 - Seminar in Advanced Tax
- 498 - Seminar in Managerial Accounting
- 498 - Seminar in Advanced Auditing
- 498 - Seminar in Advanced Cost

Independent Study in Accounting [Demand]

06.0201-499 1-3 hrs. cr.
Individually directed readings, research, and discussion in selected areas of accounting for advanced majors. Scope, depth, area of concentration, and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and 3.00 GPA.

GENERAL BUSINESS (GB)

Introduction to Business (F,S)

06.0101-101 3 hrs. cr.
An introductory course in modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law, and taxation.

Business Mathematics/Microcomputers (F,S)

06.0101-115 3 hrs. cr.
Fundamental processes of mathematics as applied to business. Also includes common and decimal fractions, percentages, markup, interest, bank discount, compound interest, annuities, insurance, payrolls, taxes, and financial statements. Should be taken concurrently with or precede accounting. Students learn how to use modern electronic calculators and microcomputers on the solution of business mathematics problems.

Business Law I (F,S)

06.0101-301 3 hrs. cr.
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes a study of the court systems and procedures, contracts, personal property and bailments, sales, and commercial paper. Special emphasis on Missouri case-law and statutes. Lectures are supported by actual case decisions and case digests. Prerequisites: Jr. Standing.

Business Law II (F,S)

06.0101-302 3 hrs. cr.
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes a brief overview of criminal law and tort law, government control and regulation, secured transactions, insurance, bankruptcy, agency and employment, partnerships, corporations, real property and estates. Prerequisites: Jr. standing.

Principles of Business Education (F)

06.0101-312 3 hrs. cr.
Basic principles and fundamentals of business education including curriculum, trends, equipment, materials, professional organizations, and vocational programs.

Business Communications (F,S)

06.0101-320 3 hrs. cr.
Communication through sound written and oral business messages. Includes principles, functions, techniques, and format of writing effective letters, memos, and reports with emphasis on the application process. Prerequisites: 6 hrs. English composition or consent of instructor.

Business Statistics I (F,S)

06.1301-321 3 hrs. cr.
An introduction to the basic concepts of descriptive and inferential statistics and to the methods of statistical analysis as they apply to business decision making. Topics studied include: frequency distribution; measures of central tendencies and dispersion; sample regression and correlation analysis; time series and seasonal analysis; probability concepts; sampling distributions; and estimation procedures. Prerequisite: Math 130 or 131 or higher.

Business Statistics II (S)

06.1301-322 3 hrs. cr.
Methods of statistical analysis relating to business decision making and research in business and economics. Covers sampling theory, parametric test of hypotheses, analysis of variance, nonparametric test of hypotheses, statistical quality control, decision making under uncertainty, index numbers, and other selected statistical techniques. Prerequisite: GB 321.

Managerial Data Processing (F,S)

06.1201-337 3 hrs. cr.
The application of automatic information processing to business; the media for recording, processing, and controlling of business information by the automatic process; and the formats and flow of data through electronic computers with simulated problems applicable to areas of Accounting, Management, and Marketing. Prerequisite: GB 115 or Microcomputer familiarity.

Small Business Management Practicum (F,S)

06.1801-410 3 hrs. cr.
A practical course in solving real problems in an actual business environment. Students provide counseling to small business firms through cases referred by the Small Business Administration. Course may be repeated to a total of six hours of credit. Prerequisite: Second semester Junior or Senior standing in Business Administration and permission of the instructor. Application for admission to the course is required.

Labor Law [Demand]

06.0101-411 3 hrs. cr.
Significant legislation and the accompanying case decisions which have a major impact on labor/management relations. Primary emphasis is on the Labor-Management Relations Act, as amended, with special attention to establishment of the bargaining unit and unfair labor practices on the part of both labor and management. Secondary emphasis on Fair Employment practices. Prerequisite: Jr. standing.

Selection of Hardware/Software for Business Applications [Demand]

06.1201-437 3 hrs. cr.
A course to familiarize business majors with the problems and considerations involved when making the selection of hardware and software in the business environment. Prerequisite: GB 337 or CIS 115 and 120.

Seminar in General Business [Demand]

06.0101-498 1-3 hrs. cr.
A seminar for upper division general business or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are:
498-Seminar in Office Machines
498-Seminar in Career Orientation
498-Seminar in Human Relations

Ind. Study in General Business [Demand]

06.0101-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of general business for advanced majors. Scope, depth, area of concentration, and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and 3.00 GPA.

ECONOMICS AND FINANCE (Econ)

The American Economic System (F,S)

06.0501-180 3 hrs. cr.
A general education course on the goals, organization, and operation of the U.S. market economy. Topics include: scarcity and choice; the operation of the pricing mechanism and the role of competition, profits, savings, and investment in the allocation of resources; the economic functions of government; limitations of the market system; market versus command economies; and the industrial organization of our contemporary capitalistic economy with emphasis on the activities of the business firm. Not available to Business majors or to those who have taken Econ 201 or 202.

Principles of Economics (Macro) (F,S)

06.0501-201 3 hrs. cr.
Economic principles that apply to the economy as a whole, such as: total income, output, and employment, general price level, economic

growth, international trade, monetary and fiscal policies, and current economic problems. Prerequisite: Sophomore standing or permission.

Principles of Economics (Micro) (F,S)

06.0501-202 3 hrs. cr.
Fundamental institutions of the American Economy, the theory of price determination, and the theory of income distribution. Prerequisite: Sophomore standing or permission.

Money and Banking (F,S)

06.0501-300 3 hrs. cr.
The nature, need constituents, functions, role, creation and destruction of money and credit; financial institutions and their functions with special emphasis on the commercial banking system and the Federal Reserve system; introduction to monetary theory and policy; international aspects of money and monetary policy. Prerequisites: Econ 201 and 202.

Economic Growth and Development [Demand]

06.0501-302 3 hrs. cr.
The meaning of economic growth and development; the problems associated with measurement and comparisons of economic growth between more developed and less developed countries; the study of changes that take place in the course of growth; the factors that contribute or hinder growth; the economic growth theories and models; policy considerations; and the international aspects of economic growth. Prerequisites: Econ 201 and 202.

Economic Resources [Demand]

06.0501-312 3 hrs. cr.
A study of the allocation of resources in order to satisfy human wants and desires through the use of economic principles and concepts. Both micro and macro principles will be utilized as well as functional concepts of resources, trends in resource development and utilization, and an appraisal of resource potentials. Prerequisites: Econ 201 and 202.

Business Statistics II

06.1301-322
(See Gen. Bus. 06.1301-322 Bus. Statistics II.)

Principles of Insurance [Demand]

06.0801-330 3 hrs. cr.
Survey of the fundamentals of insurance designed to acquaint the undergraduate student with the major areas of insurance, including risk management, interpretation of policies, property insurance, liability insurance, health insurance, and life insurance. Prerequisite: Econ 201 and 202.

Financial Management (F,S)

06.0501-350 3 hrs. cr.
Examination of the financial structure of business organization, capital structure and meth-

ods of raising fixed and working capital; questions of financial policy, such as dividend policies and the conservation of surplus; comparative balance sheets and income-expense statements. Prerequisite: Econ 201 and 202, Acct 202.

Microeconomic Analysis (F)

06.0501-401 3 hrs. cr.
A study of the price system and resource allocation through a system of markets and prices; the conditions for an efficient economic system; the determination of product and input prices under various types of markets; marginal productivity and income distribution; and optimum welfare. Prerequisites: Econ 201 and 202.

Macroeconomic Analysis (S)

06.0501-402 3 hrs. cr.
Fundamental concepts and theories of the aggregate economic variables; an aggregate economic model of the economy including goods market, money market, labor market, and foreign market; their interrelation and interaction; comparative static and dynamic analysis; the economic growth in a dynamic setting; inflation and income distribution. Prerequisites: Econ 201 and 202.

Investments (F)

06.1001-411 3 hrs. cr.
Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ 350.

Urban and Regional Economics [Demand]

06.0501-412 3 hrs. cr.
Introduction to the application of economic principles in the study of urban and regional economic environment. Analysis of the spatial price theory, transportation costs, the law of markets, the location theory and the spatial distribution of activities, the economic base theory input-output technique, the central place theory, land use, regional growth, migration, regional policy objectives, and current urban problems. Prerequisites: Econ 201 and 202.

Seminar in Economics & Finance [Demand]

06.0501-498 3 hrs. cr.
Seminar for upper division majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are: 498-Seminar in International Economics 498-Seminar in Business Cycles 498-Seminar in Public Finance

Ind. Study in Economics-Finance [Demand]

06.0501-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of economics and finance for advanced majors. Scope, depth, area of concentration, and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and 3.00 GPA.

MARKETING AND MANAGEMENT (MM)

Principles of Marketing (F,S)

06.1401-300 3 hrs. cr.
Survey of the major marketing methods, institutions, and practices. The subjects of retailing, wholesaling, distribution channels, marketing legislation, advertising, cooperative marketing research, and marketing cost are treated from the standpoint of consumers, middlemen, and manufacturers. Prerequisite: Econ 202.

Retailing (F,S)

06.1401-312 3 hrs. cr.
Principles of successful retail management; analytical and research methods applicable to problems of retail management. Prerequisite: MM 300.

Salesmanship (F)

06.1401-321 3 hrs. cr.
Principles and methods of effective personal and industrial selling. Course also stresses practical aspects through actual sale presentation by the students which are videotaped and critiqued according to the basic selling principles. Prerequisite: MM 300.

Principles of Management (F,S)

06.0401-350 3 hrs. cr.
Survey of the current state of the art and science of management. The study of the role of managers and how, through the coordination of the managerial functions (planning, organizing, leading, contributing, etc), organizational and individual goals may be achieved.

Personnel Management (F,S)

06.0401-352 3 hrs. cr.
Principles and practices of management with emphasis on the human factors, including procurement, development, and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.

Promotional Strategy (S)

06.1401-401 3 hrs. cr.
Description of fundamental advertising and promotional principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising, and formulation of campaigns. Prerequisite: MM 300.

Marketing Management (F)

06.1501-412 3 hrs. cr.
Managerial aspects of marketing: problems involved in goal setting, planning, and strategies as they apply to product policy, pricing objectives, promotional objectives, distribution policy, and marketing intelligence. Prerequisite: MM 300 and MM 350.

Operations Management (F)

06.0401-431 3 hrs. cr.
Principles and decision analysis related to the effective utilization of the factors of production and operations in manufacturing activities for both intermittent and continuous systems. The study of operations management, analytical models and methods, facilities design, and the use of computer modeling for control systems for effective production operations. Prerequisite: GB 321.

Consumer Behavior (S)

06.1499-432 3 hrs. cr.
An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchase of goods and services. The purchaser's psychological, economic, and socio-cultural actions and reactions are stressed. Prerequisite: MM 300.

Organizational Behavior (F,S)

06.1501-441 3 hrs. cr.
Study of people in organizations to provide an opportunity for one to become more aware of themselves. Focuses on organizational effectiveness as well as satisfaction of individual needs. Students are offered the opportunity to develop more fully their ability to analyze and act on human behavior problems they will face in the future. Prerequisite: MM 350.

Business Policy (F,S)

06.0401-452 3 hrs. cr.
An integrating capstone course cutting across all fields of business administration. Cases pertaining to top management decision making are used. Prerequisites: MM 300, MM 350, Econ. 350. This course must be taken during the last year of college work.

Marketing Research (S)

06.0401-470 3 hrs. cr.
The systematic gathering, recording, analyzing and presenting of data relating to (1) market analysis, (2) sales analysis, (3) consumer research, (4) advertising research and (5) attitude research. Prerequisite: GB 321, and six hours of marketing.

Seminar in Marketing & Management [Demand]

06.1401-498 1-3 hrs. cr.
Seminar for upper division marketing and man-

agement or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

Independent Study in Marketing and Management [Demand]

06.1401-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration, and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: GPA of 3.0 in major field and permission.

OFFICE ADMINISTRATION AND BUSINESS EDUCATION (OA)

Typewriting I (F,S)

07.0601-101 3 hrs. cr.
Emphasis on learning to manipulate the typewriter efficiently, stressing the development of both speed and accuracy so the student will acquire a personally useful skill. A few simple letter styles are taught as well as manuscript style and basic tabulation. No credit given to students with one or more units of high school typewriting.

Typewriting II (F,S)

07.0601-102 3 hrs. cr.
A business communications typing course. Covers all styles of business letters, technical and statistical reports, tables, and employment communications. Prerequisite: OA 101 or a good knowledge of the keyboard.

Elementary Shorthand (S)

07.0601-111 3 hrs. cr.
A theory course in which the principles of shorthand are studied. Vocabulary building is stressed. Not open to students who have completed one year of shorthand in high school. Class meets five days a week. Prerequisite: Typewriting

Intermediate Shorthand (F)

07.0601-120 3 hrs. cr.
A dictation course which includes a review of the theory and special attention to the development of efficient transcription procedures. Dictation ranges from 60 to 110 words per minute. Minimum speed requirement by the end of the semester is 80 words per minute with 95 percent accuracy. Prerequisite: OA 111 or any course in which the theory has been completed.

Typewriting III (S)

07.0601-200 3 hrs. cr.
Production of all types of letters, reports, business forms, tables, and legal forms based on realistic office job simulations. Prerequisite: OA 102 or equivalent.

Dictation and Transcription (S)

07.0601-220 3 hrs. cr.
The application of shorthand theory, grammar, punctuation and capitalization rules, and spelling to the transcription of business letters and memorandums. Emphasis on accuracy and rate of transcription and the ability to produce mailable office correspondence. Prerequisite: OA 120 or equivalent or OA 102 or equivalent.

Secretarial Procedures (S)

07.0601-230 3 hrs. cr.
A study of secretarial duties performed and the conditions under which the secretary functions. Students will receive practice in decision making and the application of secretarial skills through simulated office situations. Offered to sophomores in the Office Administration curriculum. Prerequisite: OA 120; recommended, GB 320/or permission.

Secretarial Machines (F)

07.0601-231 3 hrs. cr.
Students will be introduced to and expected to develop a knowledge and efficient operable skill in offset, stencil and fluid duplicating machines, other copying machines, transcribing machines, and word processing equipment. Offered to students in the Office Administration curriculum. Prerequisite: OA 102 Intermediate Typewriting.

Records Management (S)

07.0601-240 3 hrs. cr.
Intensive exposure to the knowledge and skills needed in modern day records management and their application to the various types of businesses. A study of the creation, classification, retention and disposal of records with emphasis on the control aspect. Offered to students in the Office Administration curriculum.

Introduction to Word Processing (F,S)

07.0601-250 3 hrs. cr.
Introduction to the total concept of word processing as it relates to administrative services and machine technology in the modern business organization. Prerequisite: OA 102 Intermediate Typewriting.

Principles of Business Education (F)

13.1303-312
(See General Business 06.0101-312)

Methods of Teaching Business (S)

13.1303-336 2 hrs. cr.
Special methods of instruction problems and difficulties peculiar to the teaching of each business subject; presentation of subject matter; content and arrangement of material; organization and administration. Prerequisite: Admission to the Teacher Education program and completion of required business courses (see page 102). 2 hrs. credit in education.

THE SCHOOL OF EDUCATION AND PSYCHOLOGY



SCHOOL DEAN:

Edward P. Merryman

DEGREES AND MAJORS

Bachelor of Arts

Psychology

Bachelor of Science

Psychology

Bachelor of Science in Education

Elementary Education

Secondary Education

Physical Education

Psychology-Special Education

ROLE:

The School of Education and Psychology shares the mission of Missouri Southern State College by providing the professional education for pre-service elementary and secondary teachers and by preparing students in professional education and psychology for graduate education. The School of Education and Psychology serves the rest of the institution by providing support courses in Physical Education and Psychology to the general education program.

A unique characteristic of the basic teacher preparation program is that the responsibility for training pre-service elementary and secondary teachers is shared with academic units outside of the School of Education and Psychology; however, the ultimate responsibility for the program rests with the Education Department.

The programs in the School of Education and Psychology are service-oriented programs which attract students who wish to make their contribution to society through teaching, research, and humanitarian services. Because of the critical nature of the contributions these students make to society, students who are academically talented are encouraged into the program.

SCOPE:

The School of Education and Psychology contributes to the mission of the College through teaching, community service, and research.

The faculty in the School of Education and Psychology are dedicated to providing students with exemplary teaching. Since the faculty serve as professional role models for their students, they are aware of

current pedagogical practices that have been developed from research and learning theory, and they use this knowledge to develop teaching methods, techniques, and procedures to create a maximal learning environment for their students.

Faculty provide services to the community by participating in civic organizations as leaders, members, and consultants. All of the faculty work with the area schools through in-service programs, programs that have been developed for children, and as consultants.

The faculty contribute to the advancement of knowledge in their respective fields through research and writing. Research that has been done in area schools has contributed to the improvement of quality of teaching.

TEACHER EDUCATION

OBJECTIVES:

The role of the teacher education program at Missouri Southern, as it relates to the mission of the College, is to provide the area and state with highly qualified and capable teacher personnel. The scope of the teacher education program, as it relates to the mission of the College, is to train teachers in elementary education, special education, and secondary education. In order to fulfill this mission, the teacher education curricula are based on explicit objectives that reflect the teacher education faculty's concept of the role of the teacher.

The objectives for the teacher education student are as follows:

1. to develop teachers who have a broad background in general education,
2. to develop teachers with a comprehensive background in the content of their teaching specialty,
3. to develop teachers who are competent in the social and psychological foundations of the teaching-learning process for accommodating pupil differences derived from ethnic, linguistic, socio-economic, cognitive styles and abilities, and other special sources,
4. to develop teachers who are knowledgeable in curriculum design and learning strategies and who are committed to using this knowledge and skill in the de-

velopment of effective learning programs for their students,

5. to develop teachers who have the knowledge and skills to assess, evaluate, and diagnose their students in order to determine needs and goal attainment,

6. to develop teachers who are committed to ethical behavior and professional conduct and who can participate in the school community with dignity and professional pride,

7. to develop teachers who are able to understand new technologies and who are adequately prepared to utilize them in the education of their students,

8. to develop teachers who are able to communicate effectively with students, parents, policy- and decision-makers, and other persons with whom they have personal and professional contact,

9. to develop teachers who understand the dignity and worth of every individual learner consonant with the values of our democratic and pluralistic society.

The objectives for the teacher education program are:

1. to provide a strong advising program by having informed advisors who in turn help maintain a student body which is enlightened regarding the purposes of professional education and are well informed about their individual programs,

2. to provide the education student with teaching and learning experiences that extend beyond the confines of the college classroom,

3. to develop positive educational strategies for teacher education with a realization that various aspects of human differences can be adequately considered in planning for class instruction or a course of study,

4. to integrate course work with meaningful laboratory and practicum experiences early in the education student's professional sequence,

5. to stress the multi-media approach to the teaching-learning situation,

6. to train the teacher education student in the application and use of techniques, such as interaction analysis and peer observation, that can be used to analyze and critique one's peers and thereby improve these techniques, i.e., questioning strategies, lecture, discussion, etc.,

7. to broaden communication with public school administrators, teachers, school boards, and other interested citizens,

8. to foster campus-wide integration of the teacher education program,

9. to evaluate continually the instructional sequence and those students completing it to determine if they are capable of effectively performing the skills being stressed,

10. to provide several options and a rationale for the diagnostic and evaluative process of students such as paper and pencil tests, work samples, performance tests, and observations,

11. to provide a professional role model for teacher education candidates which shall include lessons with clearly stated objectives, teaching episodes which include varied teaching techniques, evaluatory procedures that reflect the stated objectives, and exemplary professional and ethical behavior.

12. to create sensitivity, understanding, and awareness in teacher education candidates toward the various cultures within our society,

13. to develop clear goals that are sensitive and responsive to both the reality of what our schools are today and to our aspirations for what they may become,

14. to plan sequential experiences that move prospective teachers toward greater sophistication and wider application of teacher knowledge and skills,

15. to establish criteria which ensure that teacher education students are at an acceptable level of proficiency when they begin professional practice.

Bachelor of Science in Education

Students who major in elementary education, elementary education/special education, physical education, psychology/special education, and secondary education and who successfully complete the requirements for this degree are eligible for teacher certification. Recipients of other degrees, who later decide to teach, can be certified through the State Department of Elementary and Secondary Education by meeting the requirements prescribed by the Dean of the School of Education and Psychology.

Admission to the Teacher Education Program

Students seeking admission to the teacher education program who are BSE candidates or who are post baccalaureate students seeking certification and who

enter under this catalog (1985-1987) must meet these requirements:

1. reference from an instructor in the major area,
2. reference from an instructor outside the major area,
3. reference from the Structures of Teaching instructor,
4. reference from the Microteaching instructor,
5. satisfactory evaluation from the Junior Block instructors,
6. achievement of a minimum cumulative GPA of 2.5 at the completion of 55 hrs. and Educ 300, Educ 320/330, Educ 321/331, and Educ 370,
7. ACT composite of 18 or SAT (V + M) of 800,
8. autobiography,
9. application approved by major department.

Admission to Student Teaching

Between the Junior Block and the Professional Block the student takes approximately 26 or more hours of work in professional education and in a teaching specialty. During this time the student must maintain a GPA of 2.5 or better and must continue maintaining those personal and professional requirements that were met as part of the admission requirements to teacher education. The requirements that must be met prior to admission to student teaching are:

1. admission to the Teacher Education Program,
2. GPA of 2.5,
3. completion of methods courses in teaching specialty,
4. no expressed reservations from the student's teaching specialty department or the Education Department.

Application for Graduation

During and after the student teaching period one last check is made to verify that the following requirements are met:

1. all requirements for admission into the Teacher Education Program,
2. all requirements for admission to student teaching,
3. all course requirements in general education, professional education and the teaching specialty,
4. satisfactory completion of the National Teachers Examination, the CORE battery

of the NTE, and the teaching area specialty examination,

5. satisfactory completion of the student teaching experience.

Advisement

Each student who enrolls in Missouri Southern will be assigned an advisor who will help the student plan a program of studies. A student above the sophomore level will have faculty advisors assigned by the school in which a specialty is chosen. *All post-graduates seeking certification to teach are advised by the Department of Education.*

Information regarding teacher certification requirements, employment opportunities, professional education requirements, and supervised student teaching may be obtained from the Department of Education.

SPECIAL EDUCATION CERTIFICATION

Special Education is offered as an area of concentration in Elementary and/or Secondary Education. Persons interested in such certification for teaching special education at any level should check with the Department of Education for details and requirements. All persons preparing to teach in a special education area (LD, MH, BD) must complete supervised student teaching and a practicum in the area of certification. Careful planning makes it possible for a student to receive certification in three areas of special education with little additional course work. In addition to the requirements for the elementary (1-8) or the secondary (7-12) Bachelor of Science Degree in Education, students seeking special education certification take the following courses: Educ 324, Educ 430, Educ 474, Educ 420, Educ 407, Educ 423, Educ 442-Student Teaching Elementary, Educ 444-Student Teaching Special Education and Educ 446, Practicum with Learning Disabled, Mentally Handicapped, or Behaviorally Disordered students.

Learning Disabled—Certification requirements to teach the Learning Disabled:

The elementary or secondary course sequence, the generic special education sequence above, Educ 404 Methods of Teaching Children with Learning Disabilities, Educ 442 and 444 Student Teaching, and Educ 446 Practicum with Learning Disabled Children.

Mentally Handicapped—Certification requirements to teach the Mentally Handicapped:

The elementary or secondary sequence, the generic special education sequence listed above, Educ 403 Methods of Teaching Mentally Handicapped Children and Educ 442 or 446 Student Teaching or Practicum with Mentally Handicapped Children.

Behavior Disorders—Certification requirements to teach Behaviorally Disordered:

Either the elementary or secondary course sequence, the special education sequence, plus Educ 405 Teaching Children with Behavior Disorders, and Educ 442, 444, and 446 Student Teaching or Practicum with Behavior Disordered Children.

REMEDIAL READING CERTIFICATION

Students who complete a BSE degree with initial certification in an elementary or secondary education teaching field may also be certified in remedial reading by satisfactorily completing the following courses: Educ 302, Educ 340, Educ 342, Educ 343, Educ 422, Educ 470, Educ 471, Educ 472, Educ 474.

EARLY CHILDHOOD CERTIFICATION

Elementary education majors who wish to certify in early childhood education grades K-3 may do so in conjunction with their coursework in elementary education by taking the following courses: HPER 340 Motor Learning in Physical Education—3 hrs; Educ 423 Classroom Management—2 hrs; Educ 430 Language Development—3 hrs; Educ 316 Introduction to Early Childhood Education—3 hrs; Educ 319 Early Childhood Education Curriculum—3 hrs; Educ 474 Educational Psychological Testing for Special Education—3 hrs; Educ 407 Diagnostic Prescriptive Teaching—3 hrs; and Educ 499 Utilizing Family and Community Resources for the Young Child—2 hrs. Student teaching must be in Early Childhood pre-school thru grade 3. Education 300-Clinical Experiences must be in grades K-3.

MIDDLE SCHOOL CERTIFICATION

Elementary education majors who wish to certify in middle childhood education grades 4-9 must complete a 21 hour concentration in a teaching specialty area as

specified for certification in grades 7-9. Information for this certification is available from the Dean and the Head of the Education Department. Secondary education majors who wish to obtain Middle School certification are requested to see the Dean of the School of Education and Psychology for certification requirements.

TEACHER CERTIFICATION BY "ACADEMIC CONTRACT"

The Missouri State Department of Education has designed a procedure whereby college graduates who did not take a prescribed teacher education program in their degree programs can meet the necessary requirements to become a certified teacher by filing an "Academic Contract" with certain approved colleges and universities. The designated college is responsible for informing the State Department of Education what credit will be needed for certification and for the recommendation to issue the teaching certificate.

An "Academic Contract" may be executed with Missouri Southern on the condition that the person qualifies for admission into its teacher education program, has a signed statement from a school administrator certifying employment, and has been properly enrolled in the college. All regular graduates of the teacher education program at Missouri Southern are awarded certification upon the recommendation of the Dean of the School of Education and Psychology.

SECONDARY EDUCATION CERTIFICATION

The curriculum for Secondary Education at Missouri Southern is a joint effort of each department supporting an area of certification and the Education Department. Each department, according to established guidelines from the State Department of Education and learned societies and professional organizations, recommends and staffs courses that will lead to certification. The Education Department provides the professional studies component and provides counseling and advising to insure that all graduation and certification requirements are met.

The Secondary Education Committee, which meets on a regular basis, has adopted the following objectives for all secondary education majors:

Objectives Secondary Education 7-12

The student in secondary education is expected to meet the objectives for all students in teacher education as set forth above for the teacher education program. The specific objectives for secondary education are as follows:

1. The student shall demonstrate teaching competency in one or more teaching specialties.
2. The student knows the general stages of growth and development and can relate those to educational planning in the teaching specialty(ies).
3. The student can incorporate into instructional planning the individual needs of students that may be evident in cultural diversity, mental exceptionalities, and physical exceptionalities.
4. The student is aware of at least three classroom management techniques and can use them for classroom control.
5. The student can develop lesson and unit plans that contain clearly stated objectives, activities that parallel the objectives, and appropriate assessments to assess the student's performance on these objectives.
6. The student is aware of the new technologies in education and can use them in the teaching specialty(ies).
7. The student can apply learning theory to instructional design and educational planning.
8. The student has a knowledge of assessment and evaluation techniques and can apply this knowledge to determine instructional and learning effectiveness.
9. The student knows and can apply a number of teaching methods and techniques, such as lecture, discussion, questions (higher order, probing, divergent) closure, set induction, use of examples, and illustration.
10. The student can use teacher evaluation techniques such as peer observation and interaction analysis.

The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization, or in two different teaching fields with a lesser degree of specialization in each. Available for secondary school teaching are:

- | | |
|-----------------------|------------------------|
| 1. Art | 9. Music |
| 2. Biology | 10. Physical Education |
| 3. Chemistry | 11. Physics |
| 4. Business Education | 12. Physical Science |
| 5. English | 13. Social Science |
| 6. Industrial Arts | 14. Speech & Theatre |
| 7. Spanish | |
| 8. Mathematics | |

Along with a teaching specialty a student may elect a supporting area (a minor) from any one of the above listed teaching specialties.

Under certain circumstances, it is possible to become qualified to teach art, music, or physical education at both the elementary and secondary school level. Students interested in such a program should consult the department involved.

Students interested in certification to teach driver education or to coach interscholastic sports should consult the Physical Education Department.

A student emphasizing secondary education must also complete departmental course requirements under either Plan A or B.

Plan A: (Double Major)

This plan is intended for those who desire to qualify as teachers in two different subject matter areas. Each area requires a minimum of 30 semester hours of specific course work which must meet minimum State Department of Education requirements. Plan A is not available in social science, music, or in programs preparing teachers for both elementary and secondary education. **If Plan A is selected, the second teaching field is required.** Students may select an advisor in either the department they choose to major in or from the Department of Education.

Plan B: (Single Teaching Field, Comprehensive Major)

This plan is intended for persons who wish to concentrate teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by department.

Persons choosing a single teaching field may also earn a minor of 21 semester hours of specific course work in a related

field, which will qualify them for a second teaching field at the junior high school level.

Each department that prepares students for secondary school teaching has developed a program of studies to be pursued by students who choose to follow either of the above plans. Plan B is mandatory for majors in social science, music, and in certain programs preparing students for dual certification at both the elementary and secondary school level.

PROFESSIONAL EDUCATION COURSES

The following sequence of courses is to be completed by students planning to teach at the secondary or elementary level.

Freshman-Sophomore Year

Persons who are planning to enter teaching should take Psy 110, Psychology of Human Development, and Educ 302, The Exceptional Child, during their first two years. Secondary education majors seeking an extended teaching certificate which will also qualify them to teach the same area in the elementary school, must have a course in child development. Any person preparing at the secondary level must have either Psy 110 Human Development or separate courses in General Psychology and Adolescent Psychology. All secondary education majors must take Educ 422 Reading in the Secondary Schools. Educ 422 may be taken the second semester of the sophomore year or during the junior or senior year on either the eight week or 16 week schedule.

Junior Year

Elementary Teaching

- | | | |
|----------|-------------------------------------|-------|
| *Psy 310 | Educational Psychology | 2 hrs |
| Educ 300 | Clinical Experiences | 2 hrs |
| Educ 320 | Structure of Teaching Elementary | 2 hrs |
| Educ 321 | Microteaching Elementary | 2 hrs |
| Educ 370 | Introduction to Instructional Media | 2 hrs |

Secondary Teaching

- | | | |
|----------|------------------------|-------|
| *Psy 310 | Educational Psychology | 2 hrs |
| Educ 300 | Clinical Experiences | 2 hrs |

- | | | |
|------------|-------------------------------------|-------|
| Educ 330 | Structure of Teaching Secondary | 2 hrs |
| Educ 331 | Microteaching Secondary | 2 hrs |
| Educ 370 | Introduction to Instructional Media | 2 hrs |
| **Educ 422 | Reading in the Secondary School | 2 hrs |

*May be taken sophomore year

**May be taken the second semester of the sophomore year. This course is offered on both the eight and 16 week schedule.

Senior Year

The "Professional Semester" occupies one complete semester. For one-half of the semester, the student enrolls in professional semester courses and during the other one-half does supervised teaching (approximately eight weeks). COURSES OUTSIDE THE BLOCK SHOULD NOT BE SCHEDULED. Students are also discouraged from participation in outside activities during student teaching since this aspect of their program demands much time. Required courses are:

Elementary Teaching

- | | | |
|----------|---|-------|
| Educ 322 | Methods of Teaching Social Studies in Elementary School | 2 hrs |
| Educ 401 | Use of Computer Software in the Classroom | 2 hrs |
| Educ 402 | Foundations of Education | 2 hrs |
| Educ 432 | Critical Issues in Education | 2 hrs |
| Educ 442 | Student Teaching Elementary | 8 hrs |

Select two of the following:

- | | | |
|----------|--|-------|
| Educ 412 | Individualized Curriculum Development | 2 hrs |
| Educ 420 | Introduction to Counseling | 3 hrs |
| Educ 423 | Classroom Management | 2 hrs |
| Psy 412 | Measurement-Evaluation in Education & Psychology | 2 hrs |

OR other Education Courses approved by the Dean of Education and Psychology

Secondary Teaching

- | | | |
|----------|--------------------------|-------|
| Educ 402 | Foundations of Education | 2 hrs |
|----------|--------------------------|-------|

Educ 432	Critical Issues in Education	2 hrs
Educ	A course in Special Methods of Teaching in the Major Field*	2 hrs
Educ 401	Use of Computer Software in the Classroom**	2 hrs
Educ 422	Reading Secondary***	2 hrs
Educ 462	Student Teaching Secondary	8 hrs
Select one of the following:		
Educ 412	Individualized Curriculum Development	2 hrs
Educ 420	Introduction to Counseling	3 hrs
Educ 423	Classroom Management	2 hrs
Psy 412	Measurement-Evaluation in Education & Psychology	2 hrs
OR other Education courses approved by the Dean of Education and Psychology		

*Course # depends on major field.

**Required of all secondary education majors unless a computer literacy course is offered in the teaching specialty department.

***May be taken after the first semester of the sophomore year. May not be substituted for electives. Offered on the regular and the eight week schedule.

Combination of Elementary and Secondary Teaching

For students majoring in art, music, foreign language, or physical education who desire certification at both the elementary and secondary levels, the following professional semester is recommended:

Educ 401	Use of Computer Software in the Classroom	2 hrs
Educ 402	Foundation of Education	2 hrs
Educ 432	Critical Issues in Education	2 hrs
Educ 464	Student Teaching, Combination of Secondary and Elementary Teaching in major field	8 hrs

*Educ	Special Methods course in Major Field	2 hrs
Select one of the following:		
Educ 412	Individualized Curriculum Development	2 hrs
Educ 420	Introduction to Counseling	2 hrs
Educ 423	Classroom Management	2 hrs
Psy 412	Measurement-Evaluation in Education & Psychology	2 hrs
OR other Education courses approved by the Dean of Education and Psychology		
***Educ 422	Reading Secondary	2 hrs

*Course # depends on major field

A course in Human Development is required for certification for grades K-12. If human development is not taken, a student must have a course in general psychology plus both adolescent and child psychology.

Minors In Education

An academic minor has been created in teacher education for the A.B. and B.S. student who is thinking of pursuing a career in education at some future time. This minor is not developed to meet certification requirements, but to provide the student with an adequate background in professional education for career decision making and as a foundation on which the remaining certification requirements can be added. For example, a math student may have an interest in teaching but does not want to divert time away from a math major to complete the BSE requirements. This student could plan an education minor and complete the remainder of the certification requirements after graduation.

Minor in Education (Elementary and Secondary)

Educ 302	The Exceptional Child	2 hrs
Educ 320	or	
Educ 330	Structures of Teaching	2 hrs
Educ 321	or	
Educ 331	Microteaching	2 hrs
Educ 300	Clinical Experiences	2 hrs

Educ 370	Instructional Media	2 hrs
Educ 402	Foundations of Education	2 hrs
Educ 432	Critical Issues	2 hrs
Educ 401	Use of Computer Software in the Classroom	2 hrs
Educ 342	Introduction to Developmental Reading or	
Educ 422	Teaching Reading in Secondary School	2 hrs
Educ 412	Curriculum Development	2 hrs
		20 hrs

EDUCATION

FACULTY

Sandrin, Head; Anderson, Banks, Dursky, Easterday, Highland, Merryman, Ray, Steere, Wiley, Wuch

Students who select Education as a major field may choose to become qualified at either the elementary level, the secondary level, or a combination of elementary and secondary (K-12).

Elementary majors must select an area of concentration totaling 21 hours in a designated curriculum area. The area of concentration may consist of a composite of courses in an area or it may consist of a structured series of courses that will lead to certification in grades 7-9. The following areas of concentration are available for student selection; Art, Computer Science, Early Childhood Education, English, Health and Physical Education, Mathematics, Music, Remedial Reading, Science, Social Studies, Speech and Theatre, or Special Education. For further information, an advisor should be consulted.

Students who choose to major in secondary education should refer to the section on secondary education which outlines specific professional education requirements. Subject matter requirements for the specific major are listed under the appropriate department, i.e., requirements for a major in Biology for the B.S. in Education degree are listed in the Biology Department section of the catalog.

OBJECTIVES FOR ELEMENTARY EDUCATION

The Elementary Education Major...

1. has a strong background in general education and can use the knowledges and skills obtained in general education as a basis for the teaching content in the school setting,
2. can identify the general stages of child development and how these relate to educational planning,
3. can determine students' present level of performance and use the assessment for educational planning,
4. can identify developmental and behavioral problems and can make appropriate referrals,
5. can apply learning theory, instructional design, and educational planning to classroom environments,
6. can organize and manage a classroom that permits enough freedom to encourage independent and critical thought, and one that provides enough security that a child may feel safe,
7. is able to develop a learning program based on clearly stated instructional objectives which are functional and is able to parallel these objectives with learning activities, relevant resources, and evaluations,
8. is able to match objectives and learning activities to individual needs and abilities of students,
9. can apply the new technology in education such as hardware and software, e.g., microcomputers, and can use them as learning activities to meet instructional goals and objectives,
10. can use a variety of teaching techniques in the classroom,
11. can incorporate into instructional planning the individual needs of students that may be evident in cultural diversity, values clarification, and mental and physical exceptionalities,
12. can use differentiated assessments to determine whether or not students' objectives are being met,
13. is able to apply classroom management techniques humanely and within the policies of the state and local school board,
14. recognizes the contributions of professional organizations which promote, advance, and improve the quality of education,

15. has a plan for personal professional growth and development which includes self evaluation, and

16. advocates and practices sound professional ethics in and out of the school setting.

BACHELOR OF SCIENCE WITH A MAJOR IN ELEMENTARY EDUCATION

DEPARTMENTAL REQUIREMENTS

Semester Hours

General Education Requirements		46
Education Requirements		63
Math 120	Mathematics for Elementary Teachers II	3
Eng 325	Children's Literature	3
Art 220	Art Education	3
Mus 332	Music for Elementary School	3
Educ 302	The Exceptional Child	2
Psy 110	Psychology of Human Development	5
Psy 310	Educational Psychology	2
HPER 311	Physical Education for the Elementary School	2
Educ 311	Science in the Elementary School	2
Educ 312	Problems of Teaching Arithmetic in Elementary School	2
Educ 340	Language Arts	2
Educ 342	Intro to Developmental Reading	3
Educ 343	Assessing and Personalizing Reading Instruction	3
Educ 470	Diagnostic and Remedial Reading	2
Educ 320	Structure of Teaching Elementary	2
Educ 321	Microteaching	2
Educ 300	Clinical Experiences	2
Educ 401	The Use of Computer Software in the Classroom	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Educ 322	Teaching Social Science Elementary School	2
Educ 370	Instructional Media	2
Electives in Education		4
Educ 412	Individual Curriculum Development	2

Educ 420	Introduction to Counseling	2
Educ 423	Classroom Management	2
Psy 412	Measurement and Evaluation	2
Educ 442	Student Teaching	8
Area of Concentration		21
		130-132

Suggested Order of Study

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ELEMENTARY EDUCATION

FRESHMAN YEAR

1st Semester		Hours
Course		
Psy 110	Psychology of Human Development	5
Eng 101	Composition	3
Math 111	Mathematics for Elementary Teachers I	3
Econ 180	American Economic System	3
Psy 120	Freshman Orientation	1
		15
2nd Semester		
Math 120	Mathematics for Elementary Teachers II (Math 111)	3
Eng 102	Composition	3
Comm 100 or 131		3
Hist 110 or 120	U.S. History	3
Gen Ed (Literature)		3
HYPER 101	P.E. Activity	2
		17

SOPHOMORE YEAR

1st Semester		
Psy 302	Exceptional Child Psychology (Psy 110)	2
Bio 101	Intro to Biology	4
Mus 110	Music Appreciation	3
Art 110	Intro to Art	3
PSc 120	U.S. U.S., State, & Local Government	3
		15
2nd Semester		
Psy 310	Educational Psychology (Psy 110)	2
Soc 110 or 152		3
HPER 370	School Health Education	3
Phys 100	Fundamentals of Physical Science	5
Art 220	Art Education	3
		16

JUNIOR YEAR

1st Semester		
Mus 322	Music for Elementary School	3
HPER 311	P.E. for Elementary School	3
Geog 211	Regions & Nations	3
Educ 340	Language Arts	2
Educ 342	Developmental Reading	3
Eng 325	Children's Literature	3
		17

EDUCATION & PSYCHOLOGY

2nd Semester		
Educ 312	Problems of Teaching	2
	Arithmetic	3
Educ 343	Individual Reading Instruction	3
Supporting Area		
JUNIOR BLOCK		
Educ 300	Clinical Experiences	2
Educ 320	Structures of Teaching	2
Educ 321	Microteaching	2
Educ 370	Instructional Media	2
		16

SENIOR YEAR

1st Semester		
Educ 311	Science in Elementary School	2
Educ 470	Diagnostic & Remedial Reading	2
Educ 322	Teaching Social Studies in Elementary School	2
Supporting Area		10-12
		16-18

2nd Semester		
Professional Semester		
Educ 401	Use of Computer Software in the Classroom	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in education	2
Electives		2-4
Student Teaching		8
		16-18

For additional information contact:
Dr. Jim Sandrin
Office: 237 Taylor Hall
Phone: Ext. 308

PSYCHOLOGY

FACULTY:

Volkskay, Head; Babbitt, Griffin, Junkins, Knowles, Paige, Starkey

The Psychology Department offers three degrees: the Bachelor of Arts (BA), the Bachelor of Science (BS), and the Bachelor of Science in Education with a major in Psychology-Special Education (BSE). The BA and BS degrees provide an excellent foundation for students who wish to earn advanced graduate degrees in pursuit of a career in Psychology. The BSE degree is offered in cooperation with the Education Department. Graduates of that program will be certified to teach Special Education in K-9 and to teach Psychology at the secondary level. Some possible options with the BSE are given following the description of that program below.

BACHELOR OF ARTS IN PSYCHOLOGY

DEPARTMENTAL REQUIREMENTS

	Semester Hours
General Education Requirements	46
Foreign Language	10
Psychology Requirements	40
Psy 110 Psychology of Human Development or	5
Psy 100 General Psychology and	
Psy 300 Child Development	(6)
Psy 320 Applied Statistics for the Behavioral Sciences*	3
Psy 325 Computers in the Behavioral Sciences	3
Psy 330 Experimental Psychology**	5
Psy 411 Psychology of Sensation and Perception or	
Psy 442 Physiological Psychology	3
Psy 341 Social Psychology or	
Psy 422 Theories of Personality	3
Psy 451 Learning and Memory	3
Psy 452 History and Systems of Psychology	3
Psy 480 Senior Seminar	2
Psy 481 Senior Thesis	1
Psychology Electives	9
Supporting Area	21

The supporting area requires at least 21 hrs. in any one of the following areas: Music, Economics/Finance, English/Literature, History, Journalism, Law Enforcement, Marketing/Management, Military Science, Political Science, Sociology, or other area approved by the advisor and the department.

Electives (from Psychology or other) **7**
124

*formerly numbered 311
**formerly numbered 312

BACHELOR OF SCIENCE IN PSYCHOLOGY

	Semester Hours
General Education	46
Psychology Requirements	40
Psy 110 Psychology of Human Development or	5
Psy 100 General Psychology and	
Psy 300 Child Development	(6)
Psy 320 Applied Statistics for the Behavioral Sciences*	3
Psy 325 Computers in the Behavioral Sciences	3
Psy 330 Experimental Psychology**	5
Psy 411 Psychology of Sensation and Perception or	

Psy 442 Physiological Psychology	3
Psy 341 Social Psychology or	
Psy 422 Theories of Personality	3
Psy 451 Learning and Memory	3
Psy 452 History and Systems of Psychology	3
Psy 480 Senior Seminar	2
Psy 481 Senior Thesis	1

Supporting Area

The supporting area requires at least 21 hrs. of any one of the following areas: Biology, Chemistry, Computer Science, Mathematics, Physics, or other science area approved by the advisor and the department.

Additional hours of science **21**
Electives (from Psychology or other) **10**
124

*formerly numbered 311
**formerly numbered 312

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PSYCHOLOGY-SPECIAL EDUCATION

	Semester Hours
General Education Requirements	47
Psychology Requirements	34
Psy 110 Psychology of Human Development	5
Psy 302 The Exceptional Child	2
Psy 310 Educational Psychology	2
Psy 320 Applied Statistics for the Behavioral Sciences*	3
Psy 325 Computers in the Behavioral Sciences	3
Psy 330 Experimental Psychology**	5
Psy 382 Introduction to Behavior Management	3
Psy 432 Abnormal Psychology	3
Psy 442 Physiological Psychology or	
Psy 411 Psychology of Sensation and Perception	3
Psy 412 Measurement and Evaluation in Education and Psychology	2
Psy 451 Learning and Memory	3

Education Requirements

Educ 312	Problems of Teaching Arithmetic in Elementary Schools	2
Educ 324	Introduction to Special Education	3
Educ 330	Structure of Teaching Secondary or	
Educ 320	Structure of Teaching Elementary	2
Educ 331	Microteaching or	
Educ 321	Microteaching	2
Educ 342	Introduction to Developmental Reading	3
Educ 343	Assessing and Personalizing Reading Instruction	3
Educ 370	Introduction to Instructional Media	2
Educ 402	Foundations of Education	2
Educ 403	Methods of Teaching the Mentally Handicapped or	
Educ 404	Methods of Teaching Children with Learning Disabilities or	
Educ 405	Methods of Teaching Children with Behavioral Disorders	3
Educ 407	Diagnostic and Prescriptive Teaching	3
Educ 420	Introduction to Counseling	2
Educ 430	Language Development of Exceptional Children	3
Educ 432	Critical Issues in Education	2
Educ 444	Student Teaching-Special Education	8
Educ 446	Practicum in Special Education	3
Educ 470	Diagnostic and Remedial Reading	2
Educ 474	Educational-Psychological Testing in Special Education	3

*formerly numbered 311
**formerly numbered 312

This program leads to a certification in K-9 in one of three areas—teaching the Learning Disabled, Behavior Disordered,

or Mentally Handicapped. If the student wishes to be certified in all three areas the three methods courses—Educ 403, 404, and 405 from the above program must be taken. To be certified K-12 either the practicum (Educ 446) or part of the student teaching (Educ 444) must be done at the high school level.

MINOR IN PSYCHOLOGY

Psy 110	Psychology or	5
Psy 100	General Psychology and	
Psy 300	Child Development	(6)
Psy 320	Applied Statistics for the Behavioral Sciences*	3
Psy 330	Experimental Psychology**	5
At least one 3 credit hour 400 level psychology course		3
Psychology electives		5

21-22

*formerly numbered 311
**formerly numbered 312

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 2000
Psychology Major

FRESHMAN YEAR

1st Semester		Hours
Course		
Psy 110	Psychology of Human Development	5
Eng 101	Composition	3
Gen Ed	(Math 110, 130, or 131)	3
HPER 101	Intro to P.E.	2
HPER 160	Personal Health	2
Psy 120	Freshman Orientation	1
		16

2nd Semester		Hours
Eng 102	Composition (Eng 101)	3
Hist 110 or 120		3
Gen Ed	(Humanities or Fine Arts)	3
Biology		4
Elective		3
		16

SOPHOMORE YEAR

1st Semester		Hours
Psy 320	Applied Statistics (Psy 100 or 110)	3
Gen Ed	(Phys 100)	5
Gen Ed	(Humanities or Fine Arts)	3
Gen Ed	(Literature)	3
Supporting Area		3
		17

2nd Semester		Hours
**Psy 325	Computers in Behavioral Sciences (Psy 320)	3
Gen Ed	(Comm 100)	3
Elective in Supporting Area		3
Econ 180	American Economic System or other Econ course	3
Elective		3-5
		15-17

JUNIOR YEAR

1st Semester		Hours
Psy 330	Experimental Psychology (Psy 325)	5
Foreign Language 101		5
Electives in Supporting Area		3
Electives		3-5
		16-18

2nd Semester		Hours
**Psy 411	Sensation & Perception (Psy 300)	
OR		
**Psy 422	Theories of Personality (Psy 110 or 100)	3
PSc 120	Government U.S., State, Local	3
**Foreign Language 102		5
Elective in Supporting Area		3
**Psy 451	Learning & Memory (Psy 310 or 320)	3
		17

SENIOR YEAR

1st Semester		Hours
*Psy 442	Physiological Psychology (Psy 330)	3
OR		
Psy 341	Social Psychology (Psy 320)	3
*Psy 452	History & Systems (Psy 320)	3
Psy 480	Senior Seminar	2
Electives in Supporting Area		3
Electives		3
Psy Elective		3
		17

2nd Semester		Hours
**Psy 481	Senior Thesis	1
Psy 499	Independent Study (Consent)	3
Psychology Elective		3
Elective in Supporting Area		6
Elective		3
		16

*Offered Fall Semester only
**Offered Spring Semester only

() Prerequisite

SUPPORTING AREAS

Art	21
Music	21
Economic/Finance	21
History	21
Law Enforcement	21
Military Science	21
Sociology	21
English/Literature	21
Journalism	21
Marketing/Management	21
Political Science	21
Others by permission	21

BACHELOR OF SCIENCE

Major Code 2000
Psychology Major

FRESHMAN YEAR

1st Semester		Hours
Course		
Psy 110	Psychology of Human Development	5
Eng 101	Composition	3
Math 110, 130, or 131		3
HPER 101	Intro to P.E.	2
HPER 160	Personal Health	2
Psy 120	Freshman Orientation	1
		16

16

EDUCATION & PSYCHOLOGY

2nd Semester		
Eng 102	Composition (Eng 101)	3
Bio 101	General Biology	4
Gen Ed	(Humanities and Fine Arts)	6
Literature		3
		16

SOPHOMORE YEAR

1st Semester		
Psy 320	Applied Statistics (Psy 100 or 110)	3
Phys 100, 151 or Chem 101	(Math 131 or 130)	5
PSc 120	Government: U.S., State, & Local	3
Hist 110 or 120		3
Elective in Supporting Area		3-5
		17-19

2nd Semester		
**Psy 325	Computers in Behavioral Sciences (Psy 320)	3
Econ 180	American Economic System	3
Comm 100	Speech Techniques	3
Gen Ed	(Humanities or Fine Arts)	3
Elective in Supporting Area		3-5
		15-17

JUNIOR YEAR

1st Semester		
Psy 330	Experimental Psychology (Psy 325)	5
Psychology Elective		3
Elective in Supporting Area		6
Elective		3
		17

2nd Semester		
**Psy 411	Sensation & Perception (Psy 330)	
OR		
**Psy 422	Theories of Personality (Psy 110 or 100)	3
**Psy 451	Learning & Memory (Psy 310 or 320)	3
Elective in Supporting Area		3
Psychology Elective		3
Science		5
		17

SENIOR YEAR

1st Semester		
*Psy 442	Physiological Psychology (Psy 330)	
OR		
*Psy 341	Social Psychology (Psy 320)	3
*Psy 452	History & Systems (Psy 320)	3
Psy 498	Seminar (Consent)	3
Psy 480	Senior Seminar	2
Elective in Supporting Area		3
Elective		3
		17

2nd Semester		
Psy 499	Independent Study (Consent)	3
Psy 481	Senior Thesis	1
Electives		6
Science		5
		15

() Prerequisite

*Offered Fall Semester only
**Offered Spring only

OTHER REQUIREMENTS

Ten hours are required from Math, Computer Science, Chemistry, Biology and/or Physics, in addition

to all other requirements. These replace the foreign language requirement.

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0846
Psychology-Special Education Major

FRESHMAN YEAR

1st Semester			Hours
Course			
Psy 110	Human Growth & Development		5
Eng 101	Composition		3
HPER 101	Intro to P.E.		2
Psy 120	Freshman Orientation		1
Gen Ed			6
			17

2nd Semester			
**Psy 382	Introduction to Behavior Management		3
Eng 102	Composition (Eng 101)		3
Psy 302	Exceptional Child		2
Math 110, 130 or 131			3
Gen Ed			5-6
			16-17

SOPHOMORE YEAR

1st Semester			
Psy 320	Statistics (Psy 110 or 100 & Math 130 or 131)		3
*Educ 324	Intro to Special Education		3
Gen Ed			10-12
			16-18

2nd Semester			
**Psy 325	Computers in Behavioral Sciences (Psy 320)		3
Psy 310	Educational Psychology		2
Educ 342	Intro to Developmental Reading		3
Gen Ed			9
			17

JUNIOR YEAR

1st Semester			
Psy 330	Experimental Psychology (Psy 325)		5
Educ 330	Structures or Educ 320		2
Educ 331	Microteaching or Educ 321		2
Psy 442	Physiological Psychology or Psy 411 Sensation & Perception		3
*Educ 430	Language Development for Exceptional Children		3
Educ 370	Instructional Media		2
			17

2nd Semester			
**Psy 432	Abnormal Psychology (7 hrs. Psy)		3
Educ 404	Methods of Teaching Children with Learning Disabilities		3
Educ 470	Diagnostic & Remedial Reading		2
**Educ 343	Assessing & Personalizing Reading Instruction		3
Educ 474	Educational-Psychological Testing		3
**Psy 451	Learning & Memory		3
			17

SENIOR YEAR

1st Semester			
Educ 446	Practicum in Special Education		3
Gen Ed			3
Educ 420	Intro to Counseling		2
*Educ 403	Methods of Teaching the Mentally Handicapped		3

*Educ 405	Methods of Teaching Children with Behavior Disorders	3
Educ 312	Problems in Teaching Arithmetic	2
		16

2nd Semester			
Psy 412	Measurement & Evaluation		2
Educ 402	Foundations of Education		2
Educ 432	Critical Issues		2
**Educ 407	Diagnostic Prescriptive Teaching		3
Educ 444	Student Teaching		8
			17

*Offered Fall Semester Only

**Offered Spring Semester only

() Prerequisite

For additional information contact:
Dr. J. Truman Volsky
Office: 209 Taylor Hall
Phone: Ext. 306

HEALTH, PHYSICAL EDUCATION, AND RECREATION

FACULTY:

Oldham, Head; Beard, Ellis, D. Evans, P. Evans, Frazier, Giesselmann, Lampe, Lipira, Phillips, Turner, Williams

Students who desire certification as a teacher of physical education may choose to become qualified at either the elementary level, the secondary level, or a combination of both elementary and secondary levels. Students planning to major in this field should refer to page 114 of this catalog where the Teacher Education Program is described. Students planning to teach at both elementary and secondary levels should select the K-12 plan. Those desiring to make physical education one of two teaching fields should prepare under either the K-8 plan or the 7-12 plan. The student will consult the specific department concerned for the requirements of the second teaching field.

Objectives for Physical Education, Grades K-12

The student can: (1) develop units of instruction in physical education that are

appropriate to grades K-12, (2) demonstrate competency in teaching physical education at the various grade levels, (3) develop measurement and evaluation techniques for physical education activities in grades K-12, (4) identify characteristics which make one group different from another and effectively plan for the needs of individuals who represent cultural diversity, (5) develop a unit of instruction appropriate for adapted physical education activities for exceptional children, (6) identify high risk areas of the physical education program and incorporate sound principles related to safety and supervision in planning.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICAL EDUCATION

K-12 ONE TEACHING FIELD

Semester Hours

General Education Requirements 46
Physical Education Requirements 52

Bio 221	Human Anatomy & Physiology*	5
HPER 251	Fundamentals of Physical Education Activities I*	4
HPER 252	Fundamentals of Physical Education Activities II*	4
HPER 310	The Elementary School Physical Education Program*	3
HPER 312	Teaching Elementary School Physical Education*	3
HPER 321	Theory and Analysis of Selected Team Sports*	3
HPER 332	Rhythmic Form and Analysis*	2
HPER 335	History and Philosophy of Physical Education*	2
HPER 340	Motor Learning in Physical Education*	3
HPER 342	Kinesiological Approach to Movement*	3
HPER 350	Theory of Basketball*	2
HPER 351	Theory of Football* (Men)	2
HPER 352	Theory of Track and Field* (Women)	2
HPER 365	Socio-Psychological Aspects of Athletics*	2
HPER 370	School Health Education*	3
HPER 431	Physiology of Exercise*	2

HPER 450	Prevention and Care of Injuries*	3
HPER 470	Administration of Physical Education*	2
Psy 412	Measurement and Evaluation in Education and Psychology	2

Education Certification Requirements

(See Pages 117, 118) **30**
128

*See Prerequisites

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICAL EDUCATION

7-12 TWO TEACHING FIELDS

Semester Hours

General Education Requirements 46
Physical Education Requirements 34-35

Bio 221	Human Anatomy and Physiology*	5
HPER 251	Fundamentals of Physical Education Activities I*	4
HPER 252	Fundamentals of Physical Education Activities II*	4
HPER 321	Theory and Analysis of Selected Team Sports* (Women)	3
HPER 335	History and Philosophy of Physical Education*	2
HPER 342	Kinesiological Approach to Movement*	3
HPER 350	Theory of Basketball*	2
HPER 351	Theory of Football* (Men)	2
HPER 352	Theory of Track and Field* (Men)	2

OR

HPER 360	Theory of Baseball* (Men)	2
HPER 365	Socio-Psychological Aspects of Athletics*	2
HPER 431	Physiology of Exercise*	2
HPER 450	Prevention and Care of Injuries*	3
HPER 470	Administration of Physical Education*	2
Psy 412	Measurement and Evaluation in Education and Psychology*	2

Education Certification Requirements

(See Pages 117, 118) **30**
Unrestricted Electives or Second Teaching Field 15
125-126

*See Prerequisites

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICAL EDUCATION

K-8 TWO TEACHING FIELDS

Semester Hours

General Education Requirements 46
Physical Education Requirements 33

Bio 221	Human Anatomy & Physiology*	5
HPER 310	The Elementary School Physical Education Program	3
HPER 312	Teaching Elementary School Physical Education*	3
HPER 321	Theory and Analysis of Selected Team Sports*	3
HPER 332	Rhythmic Form & Analysis*	2
HPER 335	History and Philosophy of Physical Education*	2
HPER 340	Motor Learning in Physical Education*	3
HPER 342	Kinesiological Approach to Movement*	3
HPER 365	Socio-Psychological Aspects to Athletics*	2
HPER 370	School Health Education*	3
HPER 431	Physiology of Exercise*	2
Psy 412	Measurement and Evaluation in Education and Psychology*	2

Education Certification Requirements

(See pages 117, 118) **30**

Unrestricted Elective or Second Teaching Field 17
126

*See Prerequisites

MINOR IN PHYSICAL EDUCATION (NON-TEACHING MINOR)

Semester Hours

Bio 221	Human Anatomy & Physiology*	5
HPER 335	History and Philosophy of Physical Education*	2
HPER 342	Kinesiological Approach to Movement*	3
HPER 365	Socio-Psychological Aspects of Athletics*	2
HPER 431	Physiology of Exercise*	2
HPER 450	Prevention and Care of Injuries*	3

EDUCATION & PSYCHOLOGY

SELECT ONE OF THE FOLLOWING:

HPER 251	Fundamentals of Physical Education Activities I*	4
HPER 252	Fundamentals of Physical Education Activities II*	4
HPER 321	Theory and Analysis of Team Sports	3
HPER 350	Theory of Basketball	2
HPER 351	Theory of Football	2
HPER 352	Theory of Track and Field	2
HPER 360	Theory of Baseball	2
		19-21

*See Prerequisites

MINOR IN COACHING

Semester Hours		
Bio 221	Human Anatomy & Physiology*	5
HPER 150	Rules and Officiating of Team Sports	3
HPER 342	Kinesiological Approach to Movement*	3
HPER 450	Prevention and Care of Injuries*	3

SELECT A MINIMUM OF FIVE HOURS FROM THE FOLLOWING:

HPER 321	Theory and Analysis of Team Sports	3
HPER 350	Theory of Basketball	2
HPER 351	Theory of Football	2
HPER 352	Theory of Track and Field	2
HPER 360	Theory of Baseball	2
		19-20

*See Prerequisites

MINOR IN ATHLETIC TRAINING

Semester Hours		
Bio 221	Human Anatomy and Physiology*	5
HPER 220	First Aid	2
HPER 342	Kinesiological Approach to Movement*	3
HPER 431	Physiology of Exercise*	2
HPER 450	Prevention and Care of Injuries*	3
HPER 451	Advanced Athletic Training*	2

SELECT ONE OF THE FOLLOWING:

Rad 111	Medical Terminology	3
DH 310	Nutrition	2
		19-20

*See Prerequisites

HEALTH EDUCATION CERTIFICATION FOR PHYSICAL EDUCATION MAJORS AND BIOLOGY MAJORS

Semester Hours		
Soc 121	Family	3
HPER 160	Personal Health	2
Bio 221	Human Anatomy and Physiology*	5
Psy 221	Psychology of Personal Adjustment	3
HPER 370	School Health Education*	3
DH 310	Nutrition	2
Chem 100	Introductory Chemistry*	5
OR		
Bio 211	Microbiology*	5
		23

*See Prerequisites

DRIVER EDUCATION CERTIFICATION

Semester Hours		
HPER 220	First Aid	2
HPER 230	Safety	2
HPER 361	Introduction to Driver Education*	3
HPER 362	Advanced Driver Education*	3
Psy 110	Psychology of Human Development	5
OR		
Psy 301	Adolescent Psychology*	3

SELECT 6-8 SEMESTER HOURS FROM THE FOLLOWING:

LE 100	Introduction to Law Enforcement	3
Psy 221	Psychology of Personal Adjustment	3
Educ 370	Introduction to Instructional Media	2
Soc 352	Group Dynamics*	3
		21

*See Prerequisites

Suggested Orders of Study

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0835
Physical Education Major K-12

FRESHMAN YEAR

1st Semester		
Course		Hours
Eng 101	Composition	3
PSc 120	Govt., U.S., State, Local	3
Psy 110	Psychology of Human Development	5
Comm 100	Oral Communication	3
Psy 120	Freshman Orientation	1
		15
2nd Semester		
Eng 102	Composition	3
Hist 110 or 120	U.S. History	3
Bio 121	General Zoology	4
Math 110	Intro College Math	3
Gen Ed	Elective	3
		16

SOPHOMORE YEAR

1st Semester		
HPER 251	Fund of PE Activities I	4
Gen Ed	Eng 180 or 181 Literature	3
Gen Ed	Music 110 or Art 110 or Theatre 110	3
Phys 110	Fund of Physical Science or Chem 100	5
		15
2nd Semester		
HPER 252	Fund of PE Activities II	4
Bio 221	Human Anatomy & Physiology	5
Psy 310	Educational Psychology	2
HPER 335	History & Philosophy of PE	2
Gen Ed	Literature or Fine Art	3
		16

JUNIOR YEAR

1st Semester		
HPER 310	Elementary School PE Program	3
HPER 321	Team Sports	3
HPER 340	Motor Learning	3
HPER 332	Rhythmic Form & Analysis	2
HPER 351	Theory of Football (Men)	2
HPER 370	School Health	3
Psy 302	Exceptional Child	2
		16-18

2nd Semester		
HPER 312	Teaching Elementary School PE	3
HPER 342	Kinesiology	3
HPER 350	Theory of Basketball	2
HPER 352	Theory Spring Sports (Women)	2
Educ 300	Clinical Experience	2
Educ 330	Structures of Teaching	2
Educ 331	Microteaching	2
Educ 370	Intro Instructional Media	2
		16-18

SENIOR YEAR

1st Semester		
HPER 365	Socio-Psychological Aspects of Athletics	2
HPER 431	Physiology of Exercise	2
HPER 470	Administration of Physical Education	2
HPER 450	Care & Prevention of Injuries	3
Educ 422	Reading in Secondary Schools	2
Educ 401	Computer Software	2
		13

2nd Semester

Educ 338	Teaching Health & PE	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Psy 412	Measurement & Evaluation	2
Educ 464	Student Teaching	8
		16

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0835

Physical Education Major and Health Certification (7-12)

FRESHMAN YEAR

1st Semester

Course		Hours
HPER 160	Personal Health	2
Eng 101	Composition	3
Gen Ed	[PSc 120 Govt., U.S., State, Local]	3
Psy 110	Psychology of Human Development	5
Psy 120	Freshman Orientation	1
		14

2nd Semester

Bio 121	Zoology	4
Eng 102	Composition	3
Gen Ed	[Hist 110 or Hist 120]	3
Gen Ed	[Comm 100]	3
Gen Ed	[Math 110 or Higher]	3
		16

SOPHOMORE YEAR

1st Semester

HPER 251	Fundamentals of PE Activities I	4
Psy 221	Psychology of Personal Adjustment	3
Soc 121	Family	3
Chem 100	Intro Chemistry or Bio 221 Microbiology	5
		15

2nd Semester

HPER 252	Fundamentals of PE Activities II	4
HPER 335	History & Philosophy of PE	2
Gen Ed	[Literature]	3
Bio 221	[Human Anatomy & Physiology]	5
Gen Ed	[Fine Art]	3
		17

JUNIOR YEAR

1st Semester

HPER 321	Team Sports (Women)	3
HPER 370	School Health	3
HPER 351	Theory of Football (Men)	2
Educ 300	Clinical Experience	2
Educ 370	Instructional Media	2
Psy 310	Educational Psychology	2
Educ 300	Structure of Teaching	2
Educ 331	Microteaching	2
		15-18

2nd Semester

HPER 342	Kinesiology (Bio 221)	3
HPER 350	Theory of Basketball	2
Psy 302	Exceptional Child	2
DH 310	Nutrition	2
Gen Ed	[Elective]	6
		15

SENIOR YEAR

1st Semester

HPER 431	Physiology of Exercise	2
HPER 450	Prevention & Care of Injuries	3
HPER 470	Administration of Physical Education	2
HPER 365	Socio-Psychological Aspects of Athletics	2
Educ 422	Reading Secondary Schools	2
Educ 401	Computer Software	2
Electives		3
		16

2nd Semester

Educ 338	Teaching Health & PE	2
Psy 412	Measurement & Evaluation	2
Educ 402	History & Philosophy of Education	2
Educ 432	Critical Issues in Education	2
Educ 464	Student Teaching	8
		16

[] Recommended

For further information contact:

Dr. Max Oldham

Office: 214 PE

Phone: Ext. 316

SCHOOL OF EDUCATION AND PSYCHOLOGY

COURSE DESCRIPTIONS

EDUCATION (Educ)

Techniques of Reading (F,S)

13.1010-010 2 hrs. cr.
A reading improvement program consisting of group and individual work, intended primarily for students needing remedial work in reading. Individual diagnostic reading tests determine student needs. (Cannot be applied to any degree.)

Clinical Experiences (F,S)

13.1011-300 2 hrs. cr.
Students are assigned to elementary or secondary schools for 48 clock hours with an additional 16 hours of class time on campus. Classes begin on the first regularly scheduled Tuesday and continue to meet every other Tuesday until the end of the semester. Students are provided the opportunity to work with a classroom teacher in their specialized area.

The Exceptional Child (F,S)

13.1004-302 2 hrs. cr.
A series of awareness experiences dealing with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community, and legislation which determines school policy. Prerequisite: Psy 110 or Psy 300 or Psy 301.

Science in the Elementary School (F,S)

13.1316-311 2 hrs. cr.
Designed to help teacher trainees (1) comprehend the basic notion of science and how children go about learning science, (2) develop materials suitable for demonstration, discovery, and inquiry lessons, and (3) develop the instructional skills necessary to achieve the first two goals. Students will develop lesson plans, learning kits, and will present a teaching episode. Prerequisites: Courses in biological and physical sciences and Educ 321 (Microteaching). Educ 321 may be taken concurrently with the course.

Problems of Teaching Arithmetic in Elementary Schools

13.1311-312 2 hrs. cr.
Application of principles of learning and techniques of presentation. Techniques for diagnosis and remediation as they relate to the elementary classroom. Prerequisite: 3 hrs. of math.

Introduction to Early Childhood Education (F) (Demand)

13.1204-316 3 hrs. cr.
Observation of different types of early childhood programs. A special emphasis on work-

ing with parents in educating young children. Experiences involve planning for instruction and using community resources for early childhood experiences. Students will be encouraged to work as volunteer teacher aides during the course.

Early Childhood Education Curriculum and Materials (Demand)

13.1204-319 3 hrs. cr.
Provides a background in curriculum and materials for the young child. Students will observe children involved in early childhood programs, plan and conduct a lesson with children in each of the major curriculum areas, under supervision, and construct various teaching materials. Prerequisite: Psy 310.

Structure of Teaching Elementary (F,S)

13.1202-320 2 hrs. cr.
Problems relating to teaching in the elementary school. The acquisition of instructional skills and strategies related to the teacher-learner situation. Classroom organization and management, instructional innovations, and both verbal and non-verbal interaction skills. Course is team taught. Enrollment in Microteaching (Educ 321) must be concurrent. Prerequisite: Psy 110, Psy 300, and Psy 310 (Educ 300, 320, 321, and 370 are taken concurrently.)

Microteaching (F,S)

13.1202-321 2 hrs. cr.
A required part of Educ 320 to be taken concurrently with it. Short teaching episodes are prepared, taught, and analyzed via videotape. The basic concern is with the demonstration of effective teaching skills. (Performance based, credit-non-credit grading.)

Teaching Social Studies in Elementary School

13.1318-322 2 hrs. cr.
An introduction to instructional materials and methods of teaching social studies in the Elementary School.

Introduction to Special Education (F,S)

13.1001-324 3 hrs. cr.
An over-view of all areas of special education but not intended as a methods course for any specific disability. Survey of research related to the area of LD, MH, BD. Prerequisite: Educ 302, Psy 110.

Structure of Teaching Secondary

13.1205-330 2 hrs. cr.
Instructional skills, strategies, and techniques. Development of the secondary school, classroom organization and management, instructional innovations, and both verbal and non-verbal interaction. Course is team taught. Enrollment in microteaching (Educ 331), must be concurrent. Prerequisites: Psy 110, Psy 301, Psy 310, (Educ 300, 330, 331, 370 are taken concurrently.)

Microteaching (F,S)

13.1205-331 2 hrs. cr.
A required part of Educ 330 to be taken concurrently with it. Short teaching episodes are prepared, taught, and analyzed via videotape recordings. The basic concern is with the demonstration of effective teaching skills. (Performance based, credit-non-credit grading.)

Teaching English and Language Arts in Secondary School (S)

13.1305-332 2 hrs. cr.
An introduction to the instructional materials and methods of teaching English, speech, and foreign language. Part of the Professional Semester.

Teaching Science in Secondary School (S)

13.1316-333 2 hrs. cr.
An introduction to the instructional materials and methods of teaching science. Part of the Professional Semester.

Teaching Social Science in Secondary School (S)

13.1317-334 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching social science. Part of the Professional Semester.

Teaching Music in Secondary School (S)

13.1312-335 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching music. Part of the Professional Semester.

Teaching Business in Secondary School (S)

13.1303-336 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching business. Part of the Professional Semester.

Teaching Art in Secondary School (S)

13.1314-337 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching art. Part of the Professional Semester.

Teaching Health and Physical Education in Secondary School (F,S)

13.1314-338 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching physical education and health. Part of the Professional Semester.

Teaching Mathematics in Secondary School (S)

13.1311-339 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching mathematics. Part of the Professional Semester.

Language Arts (F,S)

13.1202-340 2 hrs. cr.
Foundation course for development of understanding attitudes necessary to teach written and oral communication at the elementary level.

Teaching Industrial Arts in Secondary School (F,S)

13.1309-341 2 hrs. cr.
An introduction to curriculum, methods, and materials for teaching the various industrial arts. Part of the Professional Semester.

Intro. to Developmental Reading (F,S)

13.1205-342 3 hrs. cr.
First course in Reading Methods. Different approaches to teaching reading are studied and compared to individual learning styles of children.

Assessing and Personalizing Reading Instruction (F,S)

13.1205-343 3 hrs. cr.
Preventive and/or corrective methods and devices for teaching reading in the regular classroom. Emphasis on techniques for individualization and various types of grouping procedures. Prerequisites: Educ 342.

Teaching Speech and Theatre in Secondary School (S)

13.1205-344 2 hrs. cr.
Techniques, methods, and course content used in teaching speech and theatre. Part of the Professional Semester. Prerequisite: Admission to Teacher Education.

Introduction to Instructional Media (F,S)

13.0301-370 2 hrs. cr.
Preparation and use of the various audio-visual materials and devices, with emphasis on preparation. Enrollment is limited to education majors. (Performance based credit-non-credit grading.) Taken concurrently with 320/330. Students are urged to enroll in the section designated for their teaching area, either elementary or secondary.

Use of Computer Software in the Classroom (F,S)

13.0301-401 2 hrs. cr.
Use of microcomputers, with emphasis on evaluation, selection, and uses of educational software.

Foundations of Education (F,S)

13.0901-402 2-3 hrs. cr.
Historical, philosophical, and sociological aspects of American education. Emphasis on philosophical approaches to education theory and practice, and application of the teaching-learning theory and practice.

Methods of Teaching the Mentally Handicapped (F)

13.1006-403 3 hrs. cr.
Designed to help the prospective or in-service teacher understand mental retardation and learn to work effectively with retarded learners. Includes appropriate curriculum, individualized program development, and teaching strategies. Prerequisite: Educ 302.

Methods of Teaching Children With Learning Disabilities (S)

13.1006-404 3 hrs. cr.
Designed for the prospective or in-service teacher of learning disabled students. Diagnosis, evaluation, programming, instructional approaches, instructional strategies, and materials appropriate for use with learning disabled students. Prerequisite: Educ 302.

Methods of Teaching Children With Behavioral Disorders (F)

13.1005-405 3 hrs. cr.
Establishes a teaching rationale utilizing a precision individualized teaching strategy which enables the emotionally disturbed learner to profit more fully from his school experiences. Prerequisite: Educ 302.

Methods of Teaching the Severely Handicapped (S)

13.1006-406 3 hrs. cr.
Practices and problems in developing curriculum for severely mentally retarded and multiple handicapped children and adolescents. Study of appropriate materials, organization, and instructional processes. Prerequisite: Educ 302.

Diagnostic and Prescriptive Teaching (S)

13.0301-407 3 hrs. cr.
Use of formal test results to design specific level tests necessary to develop individualized educational plans (IEP's) for handicapped or nonhandicapped learners. Appropriate for both regular and special education majors.

Individualized Curriculum Development (F,S)

13.0301-412 2-3 hrs. cr.
Designed for elementary and secondary education majors. Instructional programming for the individual student, strategies for individualizing, grouping for instruction, organizing a variety of learning activities and materials, instructional evaluation, home-school-community relations, and comparing alternative educational systems. Prerequisite: Admission to Teacher Education.

Introduction to Counseling (F,S)

13.1101-420 3 hrs. cr.
Survey of interpersonal communication skills, counseling philosophies, principles and practices. Designed for the classroom teacher as well as the specialist in counseling or special

educator. Intended for working with both students and parents.

Teaching Reading in Secondary Schools (F,S)

13.1315-422 2 hrs. cr.
Designed to familiarize prospective secondary teachers with reading instruction. Stresses the importance of reading in all content areas. Discusses secondary reading programs which include adaptive and tutorial strategies. Required for certification of all secondary education majors.

Classroom Management (F,S)

13.1299-423 2 hrs. cr.
Concepts, skills, and models, such as behavior modification, for developing a personalized three-dimensional approach to behavior and classroom management. How to prevent discipline problems, what to do when a problem occurs, and how to decrease the possibility of problems recurring. Approaches include behavior modification, assertive discipline, desist techniques, reality therapy, and other management techniques.

Language Development of Exceptional Children (F)

13.1012-430 3 hrs. cr.
Required for certification in special education and recommended for teachers of students focusing on early childhood education. Basic structures of language, normal sequence of language acquisition, and characteristics of language disabilities. Strategies suggested for both assessing and remediating language delays or disorders.

Critical Issues in Education (F,S)

13.0401-432 2-3 hrs. cr.
Exploration of current problems with special regard to legal and professional role of school personnel, their relationship to federal and state governments and to local school districts, certification, salary schedules, retirement and other benefits, professional organizations for teachers, relationship with administration, pupils, parents, and the community. Prerequisite: Admission to Teacher Education. Offered in the Professional Semester.

Materials and Methods of Individualizing Instruction (S)

13.0301-435 3 hrs. cr.
Concepts, methods, and materials for implementation of individual instruction. Useful for those designing learning programs for exceptional children. Prerequisite: Psy 310 and Educ 320.

Student Teaching-Elementary (F,S)

13.1202-442 8 hrs. cr.
Supervised participation in teaching on the elementary level in an off-campus school. Pre-

requisites: 100 semester hours with a GPA of 2.5, completion of the Junior Block, and admission to the program of teacher education. Course assignments include full-time supervised teaching for one-half of the semester. Students whose last names begin with the letters A-L should plan to enroll in first semester; M-Z in second semester. Conferences scheduled as needed. Specific assignment is made by the Director of Student Teaching. Arrangements for assignment are to be made in the semester preceding the actual student teaching block.

Student Teaching-Special Education (F,S)
13.1202-444 4-8 hrs. cr.
Teaching the handicapped child immediately follows Educ 442 or 462 or 464. Prerequisite: See Educ 442. Course assignment consists of a minimum of 5 hours a week of student teaching for each one hour of credit per one-half semester. Conferences scheduled as needed.

Practicum in Special Education (F,S)
13.1202-446 3 hrs. cr.
Clinical experience in special education settings with one of four handicapped populations: learning disabled (LD), mildly mentally retarded (MR), behaviorally/emotionally disordered (BD), or severely handicapped (SH) learners. A three credit practicum or student teaching experience will be needed in each area of certification. Includes both time in special education classes and on campus seminar sessions. Prerequisites: Educ 324 and 3 credits of special education methods course.

Student Teaching-Secondary (F,S)
13.1205-462 4-8 hrs. cr.
Supervised participation in teaching on the secondary level in an off-campus school. Prerequisite: Completion of the Junior Block, Admission to Teacher Education, and a minimum of 100 semester hours with a GPA of 2.5. Assignment consists of full-time teaching for one-half semester with professional courses to be taken during the other half of semester. Students whose last names begin with the letters A-L should plan to enroll in the first semester; M-Z in second semester. Conferences scheduled as needed. Specific assignment is made by the Director of Student Teaching.

Student Teaching-EL-SEC (K-12) (F,S)
13.1205-464 8 hrs. cr.
Supervised participation in teaching on the secondary and elementary levels in an off-campus school. For students in specialized areas such as Art, Music, Psychology-Special Education, and Physical Education who are preparing to be certified for teaching their specialty at both levels. Prerequisite: See Educ 442.

Diagnostic and Remedial Reading (F,S)
13.1315-470 2 hrs. cr.
Prepares the beginning remedial reading teacher and the regular class teacher to deal with remedial reading problems. Emphasis on diagnosis of problems more clinical in nature with techniques, materials, and management being stressed. Prerequisite: Educ 342, Educ 343, and Educ 474.

Practicum in Diagnosis of Reading Difficulties (F)
13.1205-471 2 hrs. cr.
Practice of administering, interpreting, and reporting of diagnostic test results of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, and Educ 474 or Psy 471.

Practicum in Remediation of Reading Difficulties (S)
13.1315-472 3 hrs. cr.
Practice of using and reporting results of remedial methods in a case study of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, Educ 471.

Educational-Psychological Testing in Special Education (S)
13.0604-474 3 hrs. cr.
Comprehensive study of the various Psycho-Educational assessment techniques for diagnosis of learning problems of exceptional children, including educational, intelligence, and psychomotor. Emphasis on translating assessment data to remedial programs. (Same as Psy 474). Prerequisites: Educ 324, Psy 310, Psy 412.

Seminar in Problems of Education (Demand)
13.9999-498 1-3 hrs. cr.
A weekly seminar for upper division majors. Credit hours determined by the department each semester. Covers specialized knowledge and/or current research in the discipline; topics vary by semester and situation. Prerequisite: Advanced standing or consent of department head.

Independent Study (F,S)
13.9999-499 1-3 hrs. cr.
Structured by the advisor with approval of department head. Prerequisite: Advanced standing in the major field and approval of advisor and department head.

*Students who are elementary education majors but who are certifying in special education must take 4 hrs. of student teaching in regular elementary classroom i.e., (Educ 442) and 4 hrs. of student teaching in the special classroom, i.e., (Educ 444).
*All education majors must take 8 hours of student teaching.

PSYCHOLOGY (Psy)

General Psychology (F,S)
42.0101-100 3 hrs. cr.
Introductory course stressing the importance of the psychological mechanisms underlying all human behavior. Satisfies the General Education Requirement; however, Education majors should substitute Psy 110. No credit if Psy 110 has been completed.

Self-Awareness and Career Planning
42.0601-105 1 hr. cr.
Materials and methods to help students investigate their present life styles, including concrete methods of decision making and goal setting. Concentrated career/vocational choice sessions will help students determine an appropriate career. Offered during the second half of each semester. No credit toward psychology major.

Psychology of Human Development (F,S)
42.0701-110 5 hrs. cr.
Science of psychology; genetic, physiological, intellectual, social, and personality principles and concepts as they affect child and adolescent development and behavior. A ten-clock-hour observation is required. Fulfills the General Education Requirement, but primarily designed for Education and Psychology majors. No credit if Psy 100 has been completed.

Freshman Orientation (F,S)
42.9999-120 1 hr. cr.
Designed to help the student become adjusted to the college environment. Includes personal adjustment, rules and regulations, and vocational orientation. Culminates with the advising and enrolling of students in classes for the next semester. No credit toward psychology major.

Psychology of Personal Adjustment (F)
42.9999-221 3 hrs. cr.
Selected principles of adjustment in psychology, therapeutic approaches to improving adjustment, and research being conducted in the area. Enables the student to be more assertive and personally satisfied.

Special Topics in Psychology (Demand)
42.9999-298 1-3 hrs. cr.
Special topics in Psychology not normally included in other courses. Prerequisites to be determined by the department.

Child Development (F,S)
42.0701 300 3 hrs. cr.
Behavior and growth patterns of children from conception to puberty. Psychological findings relevant to how children learn, solve problems, and function in home and school environments. Prerequisite: Psy 100. No credit if Psy 110 has been completed.

Adolescent Psychology (F,S)

42.0701-301 3 hrs. cr.
Development of the attitudes, interests, problems, and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy 100. No credit if Psy 110 has been completed.

The Exceptional Child (F,S)

13.1001-302 2 hrs. cr.
A series of awareness experiences which deal with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community, and legislation which determines school policy. Prerequisite: Psy 110 or Psy 300 or Psy 301.

Educational Psychology (F,S)

13.0801-310 2-3 hrs. cr.
Psychological problems involved in education and practical application of psychological principles of teaching. Special emphasis on measurement, the nature of learning, and the environmental influences of behavior. Prerequisite: Psy 110 or Psy 300 or Psy 301.

Applied Statistics for the Behavioral and Natural Sciences (F,S)

42.1501-320 3 hrs. cr.
Descriptive and inferential techniques. Emphasis on the analysis and interpretation of data. Prerequisite: Psy 100 or Psy 110 and Math 110, 130, or 131.

Computers in the Behavioral Sciences (S)

42.1301-325 3 hrs. cr.
Applications of computers in the behavioral sciences with an emphasis on statistical analysis, data collection, and report generation. Prerequisite: Psy 320.

Experimental Psychology (F,S)

42.0801-330 5 hrs. cr.
Research process as a foundation for knowledge of psychology. Laboratory course stressing the acquisition of basic skills in conceiving and carrying out research, as well as analyzing results and writing reports in a professionally acceptable manner. Prerequisite: Psy 325.

Social Psychology (F)

42.1601-341 3 hrs. cr.
Social behavior of the individual; interests and tendencies that grow out of community life in terms of inter-group and inter-personal relationships. Prerequisite: Psy 320.

Introduction to Behavior Management (S)

42.9999-382 3 hrs. cr.
Techniques of modifying human behavior through principles developed by learning psychology. Emphasis on design and implementation of behavioral strategy in the laboratory as well as

practical settings. Prerequisites: Psy 110 or Psy 100.

Psychology of Sensation and Perception (S)

42.0801-411 3 hrs. cr.
Exploration of the nature of perception through an examination of the action of the various sensory systems such as vision and audition. Prerequisite: Psy 110 or 100. At least one course in biology is strongly recommended.

Measurement and Evaluation in Education and Psychology (F,S)

42.1301-412 2-3 hrs. cr.
Test construction and item analysis. Practice in evaluating and selecting tests, in administering and scoring, and in the analysis and presentation of test results. Prerequisite: Psy 310 or Psy 320.

Theories of Personality (S)

42.1001-422 3 hrs. cr.
Major contemporary theories of personality, including relevant validation research and overall evaluation of the application of each theory. Prerequisite: Psy 100 or Psy 110 and consent of instructor.

Abnormal Psychology (S)

42.9999-432 3 hrs. cr.
Recognition and classification of the systems of mental disorders, specifying causes and possible therapeutic techniques. Extensive use of the American Psychiatric Association's "Diagnostic and Statistical Manual of Mental Disorders." Prerequisite: 7 hrs. of Psychology or permission of the instructor.

Clinical Psychology (F)

42.0201-435 3 hrs. cr.
Survey which includes history, current methods, critical issues, evaluation, and predictions about future developments. Prerequisites: senior standing or at least 15 hrs. of psychology.

Physiological Psychology (F)

42.1101-442 3 hrs. cr.
Brain function and brain-behavior relations with overviews of neuroanatomy, neurochemistry, nerve membrane potential, electrical and chemical aspects of synaptic transmission, sensory and motor aspects of brain function, and the interpretive aspects of brain function in relation to behavior. Prerequisite: Psy 100 or Psy 110. At least one course in Biology is strongly recommended.

Learning and Memory (S)

42.0301-451 3 hrs. cr.
Major issues and current research findings in the area of learning and memory. General topics include transfer of training, attention, memory system approaches and other selected topics. Prerequisite: Psy 330.

History and Systems of Psychology (F)

42.999-452 3 hrs. cr.
Historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy 320 or consent of instructor.

Individual Testing (F)

42.1301-471 3 hrs. cr.
Practice in the administration and interpretation of individually administered intelligence tests, including the Stanford Binett and the three Wechsler tests. Prerequisite: Psy 320 or Psy 412. Offered only by request. Contact the Department Head.

Educational-Psychological Testing (S)

42.1031-474 3 hrs. cr.
Psycho-educational assessment techniques, including educational, intellectual, and psychomotor. Emphasis on translating assessment data to remedial programs.

Senior Seminar (F)

42.9999-480 2 hrs. cr.
For senior Psychology majors. Information and experiences helpful in making decisions about and preparing for careers, emphasizing preparation for either graduate school or baccalaureate level employment. Students become familiar with the professional interests and activities of the Psychology Department faculty, in preparation for selecting Senior Thesis topics.

Senior Thesis (S)

42.9999-481 1 hr. cr.
Developing skills in reviewing and critically evaluating the professional literature of Psychology and using these skills in producing a senior thesis. Prerequisite: Senior Seminar.

Seminar in Psychology (Demand)

42.9999-498 1-3 hrs. cr.
Specialized knowledge and/or current research in Psychology. Topics vary by semester and situation. Regular weekly meetings equal to number of credit hours determined by department for a given semester. Prerequisite: Junior-senior standing and consent of the instructor.

Independent Study (Demand)

42.9999-499 1-3 hrs. cr.
Course structured by advisor with approval of department head. Prerequisite: Advanced standing in the major field. Registration must be approved by advisor and Department Head.

HEALTH, PHYSICAL EDUCATION AND RECREATION (HPER)

Individual Physical Education (F)

13.1314-100 2 hrs. cr.
Adapted physical activity based upon needs and ability of student. Students with certified medical disabilities may meet the general edu-

cation requirement for physical education activity by completing this course.

Introduction to Physical Activities (F,S)

13.1314-101 2 hrs. cr.
A combination of physical activities and lectures offering two individual or dual activities to provide the student with the opportunity to develop a degree of skill sufficient to participate during leisure time. Lectures acquaint students with basic knowledge, understandings, and values of physical activity as it relates to optimal healthful living. Fulfills the general education requirement in physical education.

Rules and Officiating of Team Sports (F,S)

13.1314-150 3 hrs. cr.
Knowledge and skills for officiating basketball, volleyball, softball, baseball, and football; officiating laboratory required in some areas. Open to all students.

Personal Health (F,S)

13.1307-160 2 hrs. cr.
Health problems of the individual, body mechanics, nutrition, drugs and drug abuse, sex hygiene, mental hygiene, and the cause and prevention of common diseases. Not recommended for elementary education majors.

First Aid (F)

13.1304-220 2 hrs. cr.
Designed to complete the standard course of the American Red Cross in First Aid.

Safety (S)

13.1304-230 2 hrs. cr.
Basic safety education concepts preparing the student to assume responsibility for accident prevention in the school, home, and community.

Fundamentals of Physical Education Activities I (F)

13.1314-251 4 hrs. cr.
Study of the skills and understandings of selected activities: games, sports, and individual activities commonly found in the school program. Students are required to demonstrate minimum levels of proficiency in various activities or may be required to enroll in an activity course in any area of weakness. Team taught by physical education faculty; meets for two periods daily. (Either HPER 251 or 252 may be replaced with 5 semester hrs. of different activity courses with permission of department head.) Enrollment restricted to Physical Education majors and minors. Prerequisite: 30 hrs.

Fundamentals of Physical Education Activities II (S)

13.1314-252 4 hrs. cr.
Study of the skills and understandings of selected activities: sports, gymnastics, tumbling, and rhythms commonly found in the school

program. Students are required to demonstrate minimum levels of proficiency in the various activities or may be required to enroll in an activity course in any area of weakness. Team taught by physical education faculty; meets for two periods daily. Enrollment restricted to Physical Education majors and minors. Prerequisite: 30 hrs.

The Elementary School Physical Education Program (F)

13.1314-310 3 hrs. cr.
Procedures and techniques for planning the curriculum for elementary school physical education. (Physical Education majors only).

Physical Education for the Elementary School (F,S)

13.1314-311 2 hrs. cr.
Methods and materials for directing games, skills, rhythm, and stunts for the elementary school child. Designed for students who are candidates for elementary level teaching certificates.

Teaching Elementary School Physical Education (S)

13.1314-312 3 hrs. cr.
Analysis of basic movement patterns, basic skills, rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisite: HPER 310 (Physical Education majors only).

Theory and Analysis of Selected Team Sports (F)

13.1314-321 3 hrs. cr.
Professional course for physical education teachers with emphasis on organizing and performing of selected team sports. Prerequisite: HPER 252.

Internship in Physical Therapy Procedures (F,S)

13.1314-325 1-8 hrs. cr.
Observation and participation in physical therapy procedures for patients in a medical facility. Prerequisites: One year of athletic training work, junior standing, and approval of Departmental Committee.

Rhythmic Form and Analysis (F)

13.1314-332 2 hrs. cr.
Analysis of dance forms showing how complex music and dance forms are evolved. Prerequisite: HPER 252.

History and Philosophy of Physical Education (S)

13.1314-335 2 hrs. cr.
Changing role of physical education as indicated by its historical past and as evidenced through the influence of various philosophies. Prerequisite: HPER 252 or currently enrolled in 252.

Motor Learning in Physical Education (F)

13.1314-340 3 hrs. cr.
Study of motor learning to provide the teacher with the background necessary for identification of physical, mental, social, and emotional development of children and their effect on behavior movement. Recommended for teachers working with children with special problems. Prerequisite: HPER 310 or 311.

Kinesiological Approach to Movement (S)

13.1314-342 3 hrs. cr.
A mechanical and kinesiological approach to the movement of individuals in various activities. Prerequisite: Bio 221 or equivalent.

Theory of Basketball (S)

13.1314-350 2 hrs. cr.
Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, discussion of problems arising during training and regular playing season. Prerequisite: HPER 252.

Theory of Football (F)

13.1314-351 2 hrs. cr.
Attention to team play, systems of offense and defense, field strategy, discussion of rules, training and equipment. Prerequisite: HPER 252.

Theory of Track and Field (S)

13.1314-352 2 hrs. cr.
Organization and administration of meets, coaching, physical conditioning and training for each event in track and field programs. Prerequisite: HPER 252.

Theory of Baseball (S)

13.1314-360 2 hrs. cr.
Organization and management of a school baseball program including individual techniques, team play, and problems in coaching of baseball. Prerequisite: HPER 252.

Introduction to Driver Education (F)

13.1304-361 3 hrs. cr.
The first of two courses designed to prepare teachers of driver education for secondary schools. The place of the motor vehicle in American life, traffic safety, instructional materials, and recommended methods of presenting such materials in the classroom and in the car on the road. Prerequisites: Psy 301 or Psy 110. Student must have: (1) a valid driver's license and (2) a safe driving record.

Advanced Driver and Traffic Safety (S)

13.1304-362 3 hrs. cr.
A continuation of 361 with special attention to administration, organization, finance, adult education, research, and evaluation of the school driver education program. Traffic safety problems at the local, state, and national levels. Laboratory required. Prerequisite: HPER 361.

Socio-Psychological Aspects of Athletics (F,S)

13.1314-365 2 hrs. cr.
Behavior exhibited in the learning of skills and physical performance related to sociological and psychological concepts connected with the demands of physical activities. Analysis of group and individual activities and conflicts in sport; study of the effect of sport on society. Prerequisite: HPER 252.

School Health Education (F)

13.1307-370 3hrs. cr.
Study of the content, facilities, and equipment needed for school health and safety. Should be taken by all elementary education majors in the place of HPER 160. Separate sections on Health and Nutrition Programs for children for elementary majors. Prerequisite: 5 hrs. Biology.

Physiology of Exercise (F,S)

13.1314-431 2 hrs. cr.
Course for students already having prerequisite knowledge of human physiology. Emphasis on human responses to varying levels of physiological conditioning and the environment within which the exercise is taken. Includes physiological principles to better understand physiology under exercise stress. Prerequisite: Bio 221.

Prevention and Care of Injuries (F,S)

13.1314-450 3 hrs. cr.
Designed to provide knowledge related to prevention, care, and rehabilitation of injuries. Lab experiences included. Prerequisite: HPER 342.

Advanced Athletic Training (S)

13.1314-451 2 hrs. cr.
A study of professional relationships, pharmacology, special problems in athletics, exercise programs, and specific injuries to the upper and lower extremities. Practical learning experiences included. Prerequisite: HPER 450.

Administration of Physical Education (F,S)

13.1314-470 2 hrs. cr.
Organization and management of health and physical education in schools; scheduling, personnel, curriculum, finances, equipment, and facilities. Study of intramural program. Prerequisite: 20 hrs. HPER.

Seminar in Health or Physical Education (Demand)

13.1314-498 1-3 hrs. cr.
A thorough study of an advanced problem in health or physical education for selected students. Prerequisite: Senior standing, permission of department head.

Independent Study

13.1314-499 1-3 hrs. cr.
Research of a problem or field study relating to physical education; material, content, credit, and schedule to be arranged by the department head. Prerequisite: Senior standing, 3.0 GPA in major, and permission of department head.

THE ACTIVITY PROGRAM IN PHYSICAL EDUCATION

The activity program in physical education offers a program that will provide the student with the opportunity to develop a degree of skill sufficient to create interest and participation in this activity during leisure time in the adult years and provides the student with the necessary knowledge of philosophical, psychological, and sociological nature of physical activity to comprehend the necessity of continued physical health throughout life.

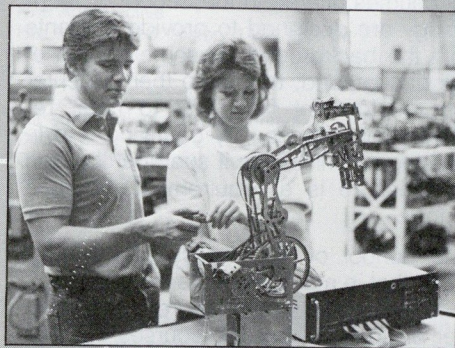
To insure exposure to the various recreational activities, the College has adopted the following requirements:

All students (except physical education majors) must enroll in HPER 101. Students are required to complete two additional hours by choosing two activity courses or HPER 160. (Students are not to repeat HPER 101.)

ACTIVITY COURSES

Course No.	Hours	Cr.
13.1314-161 Varsity Football (F)		1
13.1314-162 Varsity Basketball (F)		1
13.1314-163 Varsity Volleyball (F)		1
13.1314-171 Varsity Cross Country (F)		1
13.1314-172 Varsity Track and Field (S)		1
13.1314-180 Varsity Golf (S)		1
13.1314-182 Varsity Baseball (S)		1
13.1314-183 Varsity Softball (S)		1
13.1314-191 Varsity Soccer (F)		1
13.1314-192 Varsity Tennis (S)		1
13.1314-210 Golf and Badminton (F,S)		1
13.1314-222 Varsity Sports and Activities (F,S)		1
13.1314-231 Elementary Gymnastics and Tumbling (F,Odd)		1
13.1314-232 Intermediate Gymnastics (S,Even)		1
13.1314-242 Volleyball and Tennis (S,Odd)		1
13.1314-250 Dance and Exercise (S)		1
13.1314-261 Elementary Swimming (F,Odd)		1
13.1314-270 Advanced Swimming + Life Saving (S)		1
13.1314-292 Track, Weight Training (F,S)		1

THE SCHOOL OF TECHNOLOGY



SCHOOL OF TECHNOLOGY

SCHOOL DEAN:

James K. Maupin

Robert H. Nickolaisen, Assistant Dean

DEGREES AND MAJORS

Bachelor of Science

Computer Information Science
Criminal Justice Administration
Environmental Health
Medical Technology
Nursing
Management Technology (in conjunction with Business Administration)

Bachelor of Science in Education

Industrial Arts

Associate of Science

Automotive Technology
Computer Science
Law Enforcement
Machine Technology
Drafting and Design
Nursing
Radiologic Technology
Environmental Health Technology
Dental Hygiene

Certificate (one-year)

Data Processing
Dental Assisting

Certificate (less than two semesters, offered through Continuing Education)

Emergency Medical Technology
Emergency Medical Technology-Paramedic
Basic Police Recruit

ROLE:

The School of Technology is one of the four major instructional entities of Missouri Southern. As such, it offers quality instruction by, and under the leadership of, professional educators who also have the advantage of a background of actual work experience in business, industry, health care, and government. This instruction is further enhanced by utilizing qualified individuals from business and the professions in the community as guest lecturers and part-time instructors.

Although the courses offered by the departments of the School of Technology in the various curricula are generally specifically career oriented toward a specialized field, the staff of these departments recognize the necessity of providing an understanding of the relationships between

careers and society; therefore, courses from the Fine Arts, Humanities, and Natural Sciences as well as courses to improve a student's ability to read, write, speak, and think are a required part of each curriculum. As a result, students majoring in the various curricula in the School of Technology are an integral part of the entire student body.

All courses offered in the School of Technology are designed to provide students with the background, or some portion of the background, to enable them to enter the employment field and to meet requirements imposed by certifying and licensing examinations if such certification or licensure is a requirement for such entry.

The School of Technology also recognizes that in many respects the community is also a classroom. Therefore, a number of curricula include courses that are offered by other educational agencies. In some courses, area facilities are used as laboratory resources with students utilizing them under the direct supervision of regular college instructional personnel.

The School of Technology offers curricula leading to the B.S., B.S.E., and A.S. degrees and to one-year certificates. Programs of shorter duration, often in conjunction with the Department of Continuing Education, required for licensure or certification are also offered. In addition, numerous courses and workshops are offered to meet specific and often rapidly emerging demands of business, industry, and public service.

All departments work closely with advisory committees made up of persons from business, industry, government, and the professions. Input from the advisory committees aids the faculty of the various departments in maintaining relevancy of course and curriculum content and identifying special needs that can be addressed through continuing education programs.

GOALS:

1. Provide opportunities for students to prepare for a broad range of established and emerging careers.
2. Maintain and develop curricula which provide the opportunity for students to obtain the background in Liberal Arts and Sciences to appreciate their

heritage and contemporary society and become a contributing member of their society.

3. Provide programs, in the most cost effective method possible, that are cognizant of contemporary requirements of career fields and which provide best available preparation for emerging requirements.
4. Provide opportunities and encourage faculty and staff to remain current and conduct research in their respective disciplines.
5. Provide instructional facilities and equipment essential to the maintenance of academically excellent instruction.
6. Provide a variety of supportive functions to serve a variety of area needs.
7. Offer quality programs and, in areas where required, maintain program content necessary for special accreditation.
8. Offer a variety of continuing education programs to meet special needs and demands.
9. Encourage faculty to provide consultation services and otherwise serve as resources for the area.
10. Advise people including students and potential students regarding knowledge, skills, and abilities required to enter and succeed in various career fields.
11. Assist faculty to meet and maintain eligibility for special certification required in numerous programs.

AUTOMOTIVE TECHNOLOGY

FACULTY:

Adams

The Automotive Technology curriculum leads to an Associate of Science Degree in Automotive Technology. The program offers the necessary course work for the graduate to enter employment in automotive service or management.

The program provides an opportunity for individuals preparing for employment and technicians working in the field to learn current technology using modern equipment and facilities. The College hosts service training for Ford Motor Company, General Motors, and Chrysler Corpora-

tion. District service engineers teach classes for local service technicians with faculty and students invited to attend. This allows both faculty and students to be exposed to state-of-the-art automotive systems and components.

Some students who complete the Associate of Science Degree in Automotive Technology expand their education by pursuing a baccalaureate degree in Industrial Arts or Management Technology.

Associate of Science in Automotive Technology

	Semester	Hours
General Education Requirements	24	
Automotive Requirements	43	
Auto 102 Automotive Engines	6	
Auto 122 Automotive Electrical Systems	6	
Auto 124 Automotive Fuels, Fuel Systems, and Emission Control*	6	
Auto 202 Automotive Chassis, Brakes and Suspension Systems	6	
Auto 204 Automotive Transmissions & Drive Train	3	
Auto 222 Automotive Air Conditioning	3	
Auto 240 Diesel Engines*	5	
Auto 262 Auto Service Management*	5	
Draf 110 Introduction to Drafting	3	
	67	

*See course descriptions for prerequisites.

Suggested Order of Study

ASSOCIATE OF SCIENCE

Major Code 5306
Automotive Technology

FRESHMAN YEAR

1st Semester	Course	Hours
Auto 102	Automotive Engines	6
Math 130	College Algebra	3
OR		
Math 30	Intermediate Algebra	
Eng 101	Composition	3
Phys 100	Physical Science	5
Psy 120	Freshman Orientation	1
		18

2nd Semester	Course	Hours
Auto 122	Automotive Electrical Systems	6
Auto 124	Auto Fuels, Fuel Systems and Emissions	6
Draf 110	Introduction to Drafting	3
HPER 160	Personal Health	2
		17

SOPHOMORE YEAR

1st Semester	Course	Hours
Auto 202	Chassis, Brakes & Suspension	6
Auto 204	Auto Trans & Drive Train	3
Auto 222	Auto Air Conditioning	3
Psy 100	General Psychology	3
Comm 100	Oral Communication	3
		18

2nd Semester	Course	Hours
Auto 240	Diesel Engines	5
Auto 262	Service Management	5
Fine Arts Elective		3
Hist 110	U.S. History 1492-1877 or	
PSc 120	(U.S., State, Local Gov't)	3
		16

For additional information contact:
Dr. Roger E. Adams
Office: 112 Technology Building
Phone: Ext. 277

AVIATION

FACULTY:

The Aviation Program is offered in affiliation with the Mizzou Aviation Company of Joplin, Missouri.

For additional information contact:
Mr. James K. Maupin
Office: 113 Police Academy
Phone: Ext. 328

COMPUTER SCIENCE

FACULTY:

Cragin, Head; Calicott, Chou, Earney, Kapoor, Kelley, Mays, Oakes

Two Associate of Science (A.S.) degrees have the goals of preparing the student for entry-level employment in business, industry, or government in the general field of computing. Both of these two-year programs require 24 hours of general education (see "Academic Regulations", Page 38). Some general education requirements can meet degree requirements of the department and/or course prerequisites; these are suggested below.

A. COMPUTER PROGRAMMING as an A.S. curriculum with a business orientation.

General Education	Semester	Hours
Math 131 Finite Mathematics	3	
Comm 103 Business and Professional Speech	3	
		24

Econ 201 or 202, below, 3
satisfies a General Education requirement in Social Science.

Computer Core 21

Comp 115 Computing I	
(May be waived if student has completed 3 units of High School Math and 1 unit of High School Computer Science)	3
Comp 120 Computing II*	3
Comp 200, 230, 234, 334 (Select 2)*	6
Comp 240 Statistical Computer Applications*	3
Comp 250 Principles of Digital Computers*	3
Comp 302 Systems Concepts*	3

Business Core 18

Acct 201 Elementary Accounting I*	3
Acct 202 Elementary Accounting II*	3
Acct 310, 312, 401 (Select 1)*	3
Econ 201 Macro Economics*	3
Econ 202 Micro Economics*	3
GB 321 Business Statistics I*	3

63

*See course descriptions for prerequisites.

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5103
Computer Programming Major

FRESHMAN YEAR

1st Semester	Course	Hours
Comp 115	Computing I	3
Literature or Fine Arts		3
Math 131	Finite Math or 130 College Algebra	3
Gen Ed	[Eng 101] or higher	3
Gen Ed	[PSc 120 Government]	3
Psy 120	College Orientation	1
		16

2nd Semester	Course	Hours
Comp 120	Computing II	3
Acct 201	Principles of Accounting I	3
Comm 103	Business & Professional Speech	3
Elective	[GB 320 Business Communications]	3
Gen Ed	[PSc 100 Physical Science] or Bio 101	4-5
		16-17

SOPHOMORE YEAR

1st Semester

Computer Elective**	3
Comp 240 Statistical Computer Applications	3
Acct 202 Principles of Accounting II (Acct 201)	3
Econ 202 Principles of Micro Economics	3
GB 321 Business Statistics	3
	15

2nd Semester

Comp 250 Principles of Digital Computers	3
Comp 302 Systems Concepts	3
Econ 201 Principles of Macro Economics	3
[Acct 310 Cost Accounting] or Acct 312	3
Gen Ed Psy 100 General Psychology	3
Gen Ed HPER 101 or 160	2
	17

[] Dept Recommendation

**Select from among the following:

- Comp 200 Advanced Personal Computing w/Graphics
- Comp 210 Block-Structured Programming
- Comp 230 Report Program Generation
- Comp 234 Business D.P. Techniques (COBOL)

For additional information contact:

Dr. John Cragin

Office: 223 Matthews Hall

Phone: Ext. 224

B. COMPUTING ANALYSIS as an A.S. curriculum with a Science orientation.

General Education Requirement 24

Math is covered below

Comm 103 Business and Professional Speech	3
Econ 202 Micro Economics*	3

Satisfies a General Education requirement in Social Science.

Physics is covered below

Computer Core 15

Comp 115 Computing I (may be waived if student completed 3 units of High School Math and 1 unit of High School Computer Science)	3
Comp 120 Computing II*	3
Comp 240 Statistical Computer Applications*	3
Comp 250 Principles of Digital Computers*	3
Comp 200, 210, 230, or 234 (Select 1)*	3

Mathematics/Physics Core 24

(10 of the 34 cr. hrs. in Math and Phys also satisfy General Education requirements)

Math 150 Calculus I []*	5
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Math 250 Calculus II*	5
Math 260 Calculus III*	5
Math 322 Differential Equations*	3
Math 310 or 361 (Select 1)*	3
Math 350 or 431 (Select 1)*	3
Phys 250 General Physics I []*	5
Phys 260 General Physics II*	5

*See course descriptions for prerequisites.

[] Satisfies General Education requirement

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5104

COMPUTING ANALYSIS

FRESHMAN YEAR

Course	Hours
1st Semester	
Comp 120 Computing II*	3
Math 150 Calculus & Analytical Geometry I	5
Eng 101 Composition	3
Phys 250 Gen Physics (Math 150 co-requisite)	5
Psy 120 College Orientation	1
	17

2nd Semester

Computer Elective	3
Comp 240 Statistical Computer Applications	3
Math 250 Calculus & Analytical Geometry II	3
Phys 260 General Physics II	5
PSc 120 Govt: U.S., State, Local	3
	17

SOPHOMORE YEAR

Course	Hours
1st Semester	
Comp 250 Principles of Digital Computers	3
Math 260 Calculus & Analytical Geometry III	5
Phys 312 Statics	3
Psy 100 General Psychology	3
HPER 101 or 160	2
	16

2nd Semester

CIS 340 Analog Methodology with Digital Computers	3
Math 322 Differential Equations	3
Math 431 or 350 Numerical Analysis	3
Math 361 Intro to Probability	3
Comm 103 Business & Professional Speech Literature or Fine Arts	3
	18

*Computer prerequisite may be waived with 1 unit of H.S. Computing.

For additional information contact:

Dr. John Cragin

Office: 223 Matthews Hall

Phone: Ext. 224

C. A 30-hr. curriculum that provides elements of general education, computer science, and business is available. This curriculum does not lead to a degree, but a certificate is awarded by the College to acknowledge work completed.

Eng 101 Freshman Composition	3
Math 130 or higher	3
Comp 115 Computing I	3
Comp 120 Computing II*	3
Comp 200, 210, 230, 234 (Select 2)*	6
Gen Ed Electives	6
Gen Ed Electives	6
	30

*See course descriptions for prerequisites.

COMPUTER/INFORMATION SCIENCE

FACULTY:

Cragin, Head; Calicott, Chou, Earney, Kapoor, Kelley, Mays, Oakes

The increasing use of computers in business, government, science, industry, education, and the home has created a broad spectrum of opportunities for employment, service, or personal use of computing machines and techniques. To assist the graduate in exploiting these opportunities the following curricula are offered.

A. BACHELOR OF SCIENCE IN COMPUTER/INFORMATION SCIENCE has two options; one is oriented toward business (option I), the other is oriented toward the sciences (option II).

OPTION I (B.S. in CIS — Business Option)

General Education Requirement 46

Eng 103 Technical Writing* (recommended as a substitute for Eng 102)	3
Math 131 Finite Mathematics (prerequisite for Accounting and Programming courses)	3
Econ 202 Micro Economics* (recommended as a Social Science General Education course)	3

Comm 103 Business and Professional Speech (recommended for the General Education speech requirement)	3
An upper-division (300-400) literature course is recommended for a Humanities General Education requirement.	
Computer Core	33
Comp 115 Computing I	3
Comp 120 Computing II*	3
Comp 200, 210, 230, 234, 334 (Select 2)*	6
Comp 240 Statistical Computer Applications*	3
Comp 302 Systems Concepts*	3
CIS 320 Operations Modeling*	3
CIS 350 Data Structures and Techniques*	3
CIS 410 Information Systems Analysis*	3
CIS 420 Systems Design*	3
CIS 4XX Senior-level CIS elective (CIS 498 Seminar recommended, when offered, for currency)	3

Professional Concentration	18
Acct 201 Elementary Accounting I*	3
Acct 202 Elementary Accounting II*	3
Acct 310 or higher*	3
GB 321 Business Statistics I*	3
MM 350 Principles of Management*	3
MM 441 Organizational Behavior*	3

Professional electives (upper-division Business or CIS Dept. supporting courses)	12
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General Electives	15
	124

*See course descriptions for prerequisites.

FRESHMAN YEAR

1st Semester	Course	Hours
Comp 115	Computing I	3
Math 131	Finite Math	3
Eng 101	Composition	3
Psy 100	General Psychology	3
Hist 110 or 120	U.S. Hist	3
Psy 120	Freshman Orientation	1
		16
2nd Semester	Course	Hours
Comp 120	Computing II	3
Acct 201	Principles of Acct 1	3
Eng 101	Technical Writing (or Eng 102)	3
Bio 101	General Biology	4
HPER 101	PE Activity	2
HPER	Personal Health	2
		17

SOPHOMORE YEAR

1st Semester	Course	Hours
Computer Elective		3
Acct 202	Principles of Acct II	3
Econ 202	Micro Economics	3
Phys 100	Fundamentals of Physical Science	5
Gen Ed	Humanities/Fine Arts	3
		17
2nd Semester	Course	Hours
Comp 240	Statistical Computer Applications	3
Computer Elective		3
Acct 310 or higher		3
PSc 120	Gov't, US, State, Local	3
Gen Ed	Humanities/Fine Art	3
		15

JUNIOR YEAR

1st Semester	Course	Hours
CIS 320	Operations Modeling	3
Comm 103	Business & Professional Speech	3
Gen Ed	Humanities/Fine Art	3
Elective		3
Elective		3
		15

2nd Semester	Course	Hours
Comp 302	Systems Concepts	3
CIS 350	Data Structures & Techniques	3
MM 350	Principles of Management	3
Professional Elective		3
Elective		3
		15

SENIOR YEAR

1st Semester	Course	Hours
CIS 410	Information Systems Analysis	3
CIS 450	Operating Sys Software	3
MM 441	Organizational Behavior	3
Professional Elective		3
Elective		3
		15

2nd Semester	Course	Hours
CIS 420	Systems Design	3
Professional Elective		3
Professional Elective		3
Elective		3
Elective		3
		15

For additional information contact:
Dr. John Cragin
Office: 223 Matthews Hall
Phone: Ext. 224

OPTION II (B.S. in CIS — Science Option)

General Education Requirements 46 36

Math and physics covered below
Econ 202 (for Social Science),
Comm 103 (for speech) and
Upper-Division Literature (for
Humanities) are recommended.

Computer Core 33

Comp 115 Computing I	3
Comp 120 Computing II*	3
Comp 200, 210, 230, 234 (Select 2)*	6
Comp 240 Statistical Computer Applications*	3
Comp 320 Operations Modeling*	3
Comp 330 Assembler Language*	3
Comp 340 Analog Methodology w/ Digital Computers*	3
Comp 350 Data Structures and Techniques*	3
Comp 450 Operating Systems Software*	3
Comp 460 Compilers*	3

Professional Concentration 31

Math 150 Calculus I* []	5
Math 250 Calculus II*	5
Math 260 Calculus III*	5
Math 310 or GB 321 Statistics (Select 1)*	3
Math 350 or 431 Numerical Analysis (Select 1)*	3
Phys 250 General Physics I* []	5
Phys 260 General Physics II*	5

Professional Electives (upper-division Science or Math or CIS Dept. approved supporting courses; one CIS 498 Seminar, when offered, is strongly recommended for currency.) 12

General Electives	12
	124

*See course descriptions for prerequisites.
[] Satisfies General Education requirement

Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 5105
Computer/Information Science Major (Option I)

BACHELOR OF SCIENCE DEGREE

Major Code 5105
Computer/Information Science (Option II)

FRESHMAN YEAR

1st Semester		Hours
Course		
Math 140	College Algebra/Trigonometry	5
Eng 101	Composition	3
Psy 100	General Psychology	3
Hist 120	U.S. History	3
HPER 160	Personal Health	2
Psy 120	College Orientation	1
		17
2nd Semester		
Comp 120	Computing II*	3
Math 150	Calculus I	5
Bio 101	General Biology	4
HPER 101	Physical Activity	2
Eng 103	Technical Writing (OR Eng 102)	3
		17

SOPHOMORE YEAR

1st Semester		Hours
Computer Elective		
Math 250	Calculus II	5
Phys 250	General Physics I	5
Econ 202	Micro Econ	3
		16
2nd Semester		
Computer Elective		3
Math 260	Calculus & Analytic Geometry I	5
Phys 260	General Physics II	5
Gen Ed	[Literature or Fine Arts]	3
		16

JUNIOR YEAR

1st Semester		Hours
Comp 240	Statistical Computer Applications	3
CIS 320	Operations Modeling	3
Comm 103	Business & Professional Speech	3
Elective		3
Gen Ed	[Upper Division Literature]	3
		15
2nd Semester		
CIS 350	Data Structures & Techniques	3
Computer elective		3
Math 350	Numerical Analysis @	3
	[or Math 431 in Fall]	
PSc 120	Gov't U.S., State, & Local	3
Gen Ed	[Fine Arts]	3
		15

SENIOR YEAR

1st Semester		Hours
CIS 450	Operating Systems Software	3
CIS 330	Assembler Language	3
Professional Elective		3
Professional Elective		3
Elective		3
		15
2nd Semester		
CIS 460	Compilers	3
Professional Elective		3
Professional Elective		3
Elective		3
Elective		3
		15

*Computer prerequisite may be waived with 1 unit of H.S. Computing.
 @Each course offered only every other year.

For additional information contact:

Dr. John Cragin
 Office: 223 Matthews Hall
 Phone: Ext. 224

B. PREPARATION TO TEACH COMPUTER TOPICS.

Students who are planning to teach and who wish to prepare to meet the challenges of the rapidly expanding utilization of computers in all phases of teaching and every day life may earn a 21-hour concentration in the computer field. The following courses are suggested by the Department of Computer Science.

Computer Core

Comp 105	Introduction to Microcomputer Use	3
Comp 115	Computing I	3
Comp 120	Computing II	3
Comp 200	Advanced Personal Computing with Graphics (BASIC)	3
Comp 210	Block-Structured Programming (PASCAL)	3
Comp 230	Report Program Generation	3
Comp 250	Principles of Digital Computers	3
		21

In the event that the Missouri Department of Elementary and Secondary Education establishes special certification for computer instructors at the Secondary level, the courses listed above should be supplemented by additional courses. Such courses should be selected with the assistance of an advisor from the Computer Science Department to insure that the courses selected are most applicable.

C. A Minor in Computer/Information Science can be earned in conjunction with a baccalaureate degree in another discipline.

This 18-hour option may be tailored to the student's interest area. All students must complete Comp 115, Comp 120, and any 200-level Computer Science course. They then select 3 or more courses to round out a total of 18 hours (or more) of which 9 cr. hrs. must be upper division. Some of the courses from which the nine or more hours are to be selected are annotated here with (B/E) for those recommended to Business or Education Majors and with

(A&S) for those recommended to Arts and Science Majors.

Comp 302	Systems Concepts (B/E)	3
CIS 320	Operations Modeling (A&S)	3
CIS 330	Assembly Language	3
CIS 340	Analog Methodology with Digital Computers (A&S)	3
CIS 350	Data Structures and Techniques (A&S)	3
CIS 410	Information Systems Analysis (B/E)	3
CIS 420	Systems Design (B/E)	3
CIS 450	Operating Systems Software	3

D. A Bachelor of General Studies (BGS) degree is a viable alternative for a few individual students who may wish thorough preparation for a career in a specific specialized field. To pursue this option the student should consult with the Registrar regarding the BGS degree.

CRIMINAL JUSTICE ADMINISTRATION

FACULTY:

Seneker, Director; Mosher, Richards, Spurlin, Terry, Whittle, Williams

The department offers two degrees, the Bachelor of Science in Criminal Justice Administration and the Associate of Science in Law Enforcement (see page 145.) Since many of the jobs in these fields have special background and physical requirements, those considering a major are required to schedule an interview with the Director of the programs before enrolling.

The Criminal Justice activities of the College are a vital and working part of the law enforcement effort in Southwest Missouri and adjacent states. The Regional Criminalistics Laboratory is housed in the Police Academy building, and actual evidence is evaluated by the criminalists there who testify in court as expert witnesses as needed. Associated with the crime lab, a complete photographic laboratory, with both automated and color equipment, serves not only for student

use, but also to process crime scene and "mug shot" photos for area police and sheriffs. Most of the college's public relations and instructional photography support is also done in this lab.

Missouri law requires new officers to obtain "basic training" in a certified "Regional Police Academy". Missouri Southern operates the regional academy for this portion of Missouri, and many students choose to take their "Police Basic Training" at the Academy while attending college, to make them even more employable upon graduation.

Visitors to the modern Mills Anderson Police Academy building are usually impressed by the constant and varied activities going on there. College students mingle in classes and on breaks with working law enforcement officers from the community, paramedics, emergency medical technicians, firefighters, and others taking training in the building.

Another unusual feature of the building is the modern indoor firearms range in the basement, where police officers, students, ROTC cadets, and others are introduced to weapons skills under the guidance of qualified range masters. And, while there are other criminal justice programs in the nation, this one is perhaps unique in the combination of the many "real world" activities going on with which the College serves the community in a practical sense. This works to the advantage of the pre-service college student who is able to take advantage of the facilities and expertise of the faculty and staff working at these important jobs. Missouri Southern graduates generally find their way back for special seminars and training to keep them updated on recent changes in technology and legal subjects. The Academy is a busy place with interested and challenged students working with experienced and dedicated staff.

The B.S. in Criminal Justice Administration is designed for persons planning careers in law enforcement, juvenile justice, corrections, probation and parole, private or industrial security, federal investigative agencies, related positions, and when combined with the ROTC program, for Military Police officers. Many of these positions have requirements relating to physical condition and integrity of personal background

with which the student should become familiar.

BACHELOR OF SCIENCE IN CRIMINAL JUSTICE ADMINISTRATION

General Education Requirements 46 Criminal Justice Requirements 23

LE 100	Introduction to Law Enforcement	3
LE 110	Police Organization and Administration	2
LE 150	Interview and Report Writing	3
LE 210	Criminal Procedures	3
LE 150	Criminal Law	3
LE 290	Police Supervision and Management	3
CJAd 490	Internship in Criminal Justice Administration*	6

The student must also select a minimum of 20 credit hours from the following list of major course electives:

LE 200	Criminal Investigation I	3
LE 298	Special Topics	1-8
CJAd 130	Introduction to Security	3
CJAd 210	Basic Photography*	3
CJAd 230	Physical Security	3
CJAd 260	Legal and Technical Aspects of Firearms	3
CJAd 300	Criminal Investigation II*	3
CJAd 310	Traffic Accident Investigation and Controls*	3
CJAd 320	Probation and Parole*	2
CJAd 330	Loss Prevention Techniques*	3
CJAd 331	Administration of Security Systems*	3
CJAd 340	Basic Color Photography*	3
CJAd	Homicide Investigation*	3
CJAd 410	Juvenile Procedures*	3
CJAd 411	Juvenile Corrections*	3
CJAd 450	Criminal Evidence*	3
CJAd 498	Seminar in Criminal Justice Administration*	3
CJAd 499	Independent Study*	1-3

The major in Criminal Justice Administration also requires that the student complete 21 hours of classwork in the supportive area:

Soc 110	Introduction to Sociology	3
Soc 210	Social Problems*	3
Soc 351	Criminology*	3
Soc	Upper Division Sociology Elective*	3
Psy 100	General Psychology	3
Psy	Psychology Elective	3
Psy	Psychology Elective	3

*See course descriptions for prerequisites.

General electives selected with advisor approval (among which must be sufficient "upper division" courses [courses numbered at the 300 or 400 level] to complete the college's requirement for a minimum 40 upper-division hours).

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Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 2105
Criminal Justice Administration Major

FRESHMAN YEAR

1st Semester	Course	Hours
LE 100	Intro to Law Enforcement	3
LE 110	Police Organization and Administration	2
Eng 101	Composition	3
Econ 180	American Economic System	3
Comm 100	Oral Communication	3
Psy 120	Freshman Orientation	1
		15

2nd Semester

LE 150	Interview and Report Writing	2
Eng 103	Technical Writing (or Eng 102)	3
Math 110	Intro College Math	3
Bio 101	General Biology	4
PSc 120	Gov't U.S., State, and Local	3
HPER 101	P.E. Activity	2
		17

SOPHOMORE YEAR

1st Semester	Course	Hours
LE 210	Criminal Procedures	3
Hist 110	OR 120 U.S. History	3
Phys 100	Fundamentals of Physical Science	5
Soc 110	Intro to Sociology	3
HPER 160	Personal Health	2
		16

*See course descriptions for prerequisites.

2nd Semester		
LE 150	Criminal Law	3
LE 290	Police Supervision & Management	3
Soc 210	Social Problems	3
Psy 100	General Psychology	3
Gen Ed	(Literature)	3
		15

JUNIOR YEAR

1st Semester		
CJAd Elective		3
Gen Ed	(Phys 100)*	5
Soc 351	Criminology	3
Psychology Elective		3
Elective		3
		17

2nd Semester		
CJAd Elective		3
Gen Ed	(Fine Art)*	3
Soc Elective		3
Electives		4
Psychology Elective		3
		16

SENIOR YEAR

1st Semester		
CJAd Elective		3
CJAd Elective		3
Gen Ed	(Literature or Fine Art)*	3
Psychology Elective		3
		12

2nd Semester		
CJAd 490	Internship in CJAd	6
PSc Elective	(Upper Division)	3
CJAd Elective*		3
Electives*		2
		14

*All electives must be approved by a CJAd advisor prior to enrollment.

For additional information contact:
Mr. Don Seneker
Office: 104 Police Academy
Phone: Ext. 302

MINOR IN CRIMINAL JUSTICE ADMINISTRATION

The minor consists of 18 hours of course work which includes: LE 100 Introduction to Law Enforcement, LE 210 Criminal Procedures, LE 250 Criminal Law, and nine additional hours of LE or CJAd courses, six of which must be upper division.

DENTAL ASSISTING

FACULTY:

Ensminger, Director; Karst

Dental Assistants are valued members of the dental health care team who assume a variety of responsibilities in a dental office including chairside dental assisting, sterilization of instruments, exposing, pro-

cessing and mounting radiographs, preparing patients for treatment, basic laboratory procedures, and receptionist and other business office duties. Missouri Southern offers a planned two semester curriculum leading to a Certificate in Dental Assisting. Upon satisfactory completion, graduates are eligible to take the National Board Examination for registration as Certified Dental Assistants. This program is accredited by the American Dental Association.

Admission to Missouri Southern does not automatically confer admission to the Dental Assisting Program. In addition to meeting admission requirements for the College, candidates must apply for admission to the Department of Dental Programs prior to May 1. Applications are reviewed by the Selection Committee for Dental Programs, and consideration is given to demonstrated scholastic ability and test scores, references, and results of a personal interview with the Dental Programs faculty. Interested individuals are encouraged to contact the Director of Dental Programs for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are estimated minimum costs incurred by Dental Assisting students: \$350 for uniforms, safety glasses and graduation pins; \$55 for the Dental Assisting National Board Examination; \$40 for ADAA student membership dues and liability insurance; variable expenses for transportation and meals to off campus clinical training sites.

The Certificate in Dental Assisting requires a minimum of 38 credit hours. All courses in the suggested order of study must be completed in the prescribed sequence. Course grades of C or above are necessary for retention in the Dental Assisting Program.

Certificate in Dental Assisting

	Semester Hours
DA 100	Dental Science I 3
DA 120	Dental Laboratory Procedures I 3
DA 130	Dental Orientation 2
DA 140	Dental Operative Procedures 5
DA 150	Dental Science II* 3
DA 160	Dental Laboratory Procedures II* 3

DA 170	Dental Secretarial Procedures 3
DA 180	Dental Specialites 3
DA 190	Clinical Dental Assisting* 5
DH 160	Dental Radiology 2
Eng 101	Composition 3
Psy 100	General Psychology 3
	38

*See course descriptions for prerequisites.

Suggested Order of Study

CERTIFICATE OF ACHIEVEMENT

Major Code 5202
Dental Assisting

FALL SEMESTER

Course	Hours
Eng 101	Composition 3
DA 100	Dental Science I 3
DA 120	Dental Laboratory Procedures I 3
DA 130	Dental Orientation 2
DA 140	Dental Operative Procedures 5
DH 160	Dental Radiology 2
	18

SPRING SEMESTER

Psy 100	General Psychology 3
DA 150	Dental Science II 3
DA 160	Dental Laboratory Procedures II 3
DA 170	Dental Secretarial Procedures 3
DA 180	Dental Specialites 3
DA 190	Clinical Dental Assisting 5
	20

For additional information contact:
Mrs. Mary Ensminger
Office: 102 Technology Building
Phone: Ext. 279

DENTAL HYGIENE

FACULTY:

Ensminger, Director; David, Thompson

Dental Hygiene is a rapidly growing and increasingly dynamic profession for persons who wish to participate as an active member in a health care field. The dental hygienist may be employed in a variety of settings and is licensed to provide direct services to the patient which might include oral prophylaxis, exposing, processing and mounting radiographs, applying agents for the prevention of dental decay, patient education, medical histories, head and neck examinations, soft tissue curettage, and local infiltration anesthesia. Missouri Southern offers an Associate of Science Degree in Dental Hygiene. Upon satisfactory completion, grad-

uates are eligible to take the National Board Examination and practical examinations required for licensure in Missouri and other states. This program is accredited by the American Dental Association.

Admission to Missouri Southern does not automatically confer admission to the Dental Hygiene Program. In addition to meeting admission requirements for the College, candidates must apply for admission to the Department of Dental Programs prior to May 1. Applications are reviewed by the Selection Committee for Dental Programs, and consideration is given to demonstrated scholastic ability and test scores, references, and results of a personal interview with the Dental Programs faculty. General Zoology, Intermediate Algebra, and English Composition are prerequisites for admission which may be completed during the summer immediately preceding entrance into the program. Interested individuals are encouraged to contact the Director of Dental Programs for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are minimum costs incurred by Dental Hygiene students: \$400 for uniforms, safety glasses and graduation pins; \$400 for instruments; approximately \$350 for licensure exams which will vary depending on state(s) in which license is desired; \$60 for ADHA student membership dues and liability insurance; variable expenses for transportation to off campus clinical training sites and meals.

The Associate of Science in Dental Hygiene requires a minimum of 83 credit hours. All courses in the suggested order of study must be completed in the prescribed sequence. Course grades of C or above in Dental Hygiene and supporting science courses are necessary for retention in the Dental Hygiene Program.

Associate of Science Degree in Dental Hygiene

	Semester Hours
General Education Requirements	24
Dental Hygiene Requirements	59
(10 hours satisfied by prerequisites)	
DH 101 Fundamentals of Dental Hygiene I	3
DH 102 Fundamentals of Dental Hygiene II*	3

DH 140	Dental Morphology	1
DH 150	Oral Histology and Embryology	3
DH 160	Dental Radiology	2
DH 190	Clinical Dental Hygiene I*	3
DH 200	Dental Health Education	3
DH 210	Perio-Pathology	3
DH 220	Dental Materials	3
DH 290	Clinical Dental Hygiene II*	5
DH 310	Nutrition	2
DH 320	Pharmacology	2
DH 330	Ethics and Community Dentistry*	3
DH 390	Clinical Dental Hygiene III*	5
Bio 231	Medical Microbiology*	5
Bio 240	Radiation Biology*	3
Bio 306	Human Physiology and Anatomy*	5
Chem 100	Introductory Chemistry*	5

1	Spring Semester	
DH 330	Ethics and Community Dentistry	3
DH 390	Clinical Dental Hygiene III	5
Gen Ed	(Humanities or Fine Arts)	3
Gen Ed	(Hist 110, Hist 120 or PSc 120)	3
Soc 110	Introduction to Sociology	3

17

For additional information contact:
Mrs. Mary Enslinger
Office: 102 Technology Building
Phone: Ext. 279

DRAFTING AND DESIGN

FACULTY:

Morgan, Nickolaisen

The Drafting and Design curriculum leads to an Associate of Science Degree in Drafting and Design. The curriculum prepares individuals to enter employment as drafters in the fields of manufacturing, architecture, or construction.

The requirements for the Associate of Science degree in Drafting and Design include a broad base of technical and general education courses. Drafting and Design majors are required to complete a course in either Wood Technology or Machine Technology.

Courses are also required in Mathematics, Science, and Computer Aided Drafting. Math 130 (or 30) must be completed to meet the mathematics general education requirement. It is highly recommended that Drafting and Design majors complete Math 112 or Math 140.

Many students who complete the Associate of Science Degree in Drafting and Design continue their education by pursuing a baccalaureate degree in Industrial Arts or Management Technology. Most graduates enter industry in support positions to engineers or architects.

ASSOCIATE OF SCIENCE DEGREE IN DRAFTING AND DESIGN

	Semester Hours
General Education Requirements	24
Drafting Requirements	29
Draf 110 Introductory Drafting	3
Draf 115 Intro to Computer Aided Drafting	1
Draf 120 Descriptive Geometry*	3
Draf 130 Machine Drafting*	3
Draf 202 Tool Design or 204 Mechanical Design*	3

Suggested Order of Study

ASSOCIATE OF SCIENCE

Major Code 5203
Dental Hygiene Major

PREREQUISITES:

Bio 121	General Zoology	4
Eng 101	Freshman Composition	3
Math 30	Intermediate Algebra (or higher Math Course)	3

FRESHMAN YEAR

Course	Hours
Fall Semester	
DH 101 Fundamentals of Dental Hygiene I	3
DH 140 Dental Morphology	1
DH 150 Oral Histology and Embryology	3
Bio 306 Human Physiology and Anatomy	5
Chem 100 Introductory Chemistry	5
	17
Spring Semester	
DH 102 Fundamentals of Dental Hygiene II	3
DH 160 Dental Radiology	2
DH 220 Dental Materials	3
DH 310 Nutrition	2
Bio 231 Medical Microbiology	5
Bio 240 Radiation Biology	3
	18

Summer Session	
DH 190 Clinical Dental Hygiene I	3
DH 210 Perio-Pathology	3
	6

SOPHOMORE YEAR

Fall Semester	
DH 200 Dental Health Education	3
DH 290 Clinical Dental Hygiene II	5
DH 320 Pharmacology	2
Psy 100 General Psychology	3
Comm 100 Oral Communication	3
HPER 101 Introduction to Physical Activities	2
	18

Draf 210 Technical Illustration*	3
Draf 220 Architectural Drafting*	3
Draf 230 Survey and Mapping*	3
Draf 260 Computer Aided Drafting*	3
Mach 100 Intro to Machine Tool Processes	
or	
IA 300 Woodworking	4
Drafting Electives (at least 9 hours)	9
Art 132 Introduction to Design	3
Art 230 Basic Form	3
CJAd 210 Basic Photography	3
Comp 115 Computing I	3
Comp 120 Computing II	3
Comp 200 Advanced Personal Computing w/graphics	3
Eng 103 Technical Writing	3
IA 310 Introduction to Plastics	3
IA 321 Industrial Electricity	3
IA 322 Electricity/Electronics	3
IA 340 Power Technology	3
Mach 160 Inspection and Gaging	2
Mach 260 Fundamentals of Metallurgy	3
Math 112 Trigonometry	3
Math 140 Algebra and Trigonometry	5

62

*See course description for prerequisites.

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5303
Drafting and Design Major

FRESHMAN YEAR

1st Semester	Course	Hours
Draf 110	Introduction to Drafting	3
Draf 115	Introduction to Computer Aided Drafting	1
Math 30 or 130	Intermediate or College Algebra	3
Mach 100	Intro Machine Tool Processes or IA 300 Woodworking	4
Gen Ed	(Humanities or Fine Arts)	3
Psy 120	Freshman Orientation	1

15

2nd Semester	Course	Hours
Draf 120	Descriptive Geometry	3
Draf 130	Machine Drafting	3
Eng 101	Composition	3
Comm 101 (or 103)	Oral Communication	3
HPER 101	Introduction to P.E.	2
Technical Elective		3

17

SOPHOMORE YEAR

1st Semester	Course	Hours
Draf 202 or 204	Tool Design or Mechanical Design	3
Draf 230	Mapping & Survey (Phys 100)	3
Gen Ed		5
Technical Electives		6

17

2nd Semester	Course	Hours
Draf 210	Technical Illustration	3
Draf 260	Computer Aided Drafting	3
Draf 220	Architectural Drafting	3
Gen Ed	(Psy 100 or Soc 110)	3
Gen Ed	(Hist 110, Hist 120 or PSc 120)	3

15

For additional information contact:
Mr. Ron Morgan
Office: 114 Technology Building
Phone: Ext. 327

PRE-ENGINEERING

FACULTY:

Martin, Phillips

The Math and Physical Science Departments at Missouri Southern in cooperation with the Engineering Staff at the University of Missouri-Rolla have prepared a booklet entitled: "A Model Program for Engineering Transfers". This book lists the course sequence for students taking their first two or two and one-half years of an Engineering Science curriculum at Missouri Southern and planning to transfer to UMR. The plan also includes the courses the student will take at UMR to complete a B.S. degree in various engineering disciplines. Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering advisor during his first semester. If a student wishes to transfer to a school other than UMR, it is suggested that the catalog of that school be reviewed for any differences in their program and the UMR outline. College catalogs are available in the Reserve area of the Missouri Southern library. Any advisors who desire a copy of the booklet should contact the Mathematics or Physical Science Department.

Semester Hours

General Education Requirements**	24	17
Pre-Engineering Requirements	45	
Phys 250 General Physics I*	5	
Phys 260 General Physics II*	5	
Phys 312 Statics*	3	

Chem 101	General Chemistry I***	5
Math 150	Calculus with Analytical Geometry I*	5
Math 250	Calculus with Analytical Geometry II*	5
Math 260	Calculus with Analytical Geometry III*	5
Comp 120	Computing II*	3
Econ 201	Principles of Economics (Macro)	3
Elective (Math or Physics)***		3
Elective (Humanities/Social Science/Drafting)***		3

62

*See course descriptions for prerequisites.

**Required Math and Physics courses simultaneously satisfy General Education and Major requirements.

***The student should meet with a pre-engineering advisor for the proper selection depending on the field of engineering.

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5499
Pre-Engineering Major

FRESHMAN YEAR

1st Semester	Course	Hours
Eng 101	Composition	3
Math 150	Calculus I	5
Hist 110	OR 120 U.S. History**	3
Chem 101	General Chemistry I	5
Psy 120	Freshman Orientation	1

17

2nd Semester	Course	Hours
Math 250	Calculus II	5
Phys 250	General Physics I	5
Econ 201	Principles of Economics	3
*Gen Ed	Humanities/Fine Arts/Drafting	3

16

SOPHOMORE YEAR

1st Semester	Course	Hours
Math 260	Calculus III	5
Phys 260	General Physics II	5
Comp 120	Computing II	3
*Gen Ed	Sociology or Psychology	3
*Gen Ed	Humanities/Fine Arts	
OR		
HPER 101	Intro to P.E.	
OR		
HPER 160	Personal Health	3-2

19-18

2nd Semester		
Math 322	Differential Equations	3
Phys 312	Statics	3
Phys 372	Electronic Circuits	4
Phys 341	Thermal Physics	
OR		
Phys 322	Classical Mechanics	4-3
*Comm 100	Oral Communication	3
OR		
Gen Ed	Humanities/Fine Arts	3
		17-16

*Suggested elective (not strict requirements)

**Students who have a weak background in Physics should consider taking Physics 140 instead of Hist 110 or 120.

For additional information contact:

Dr. Larry Martin
Office: 200 Reynolds Hall
Phone: Ext. 240
OR
Dr. Russell Phillips
Office: 226 Reynolds Hall
Phone: Ext. 292

ENVIRONMENTAL HEALTH TECHNOLOGY

FACULTY:

Elick, Coordinator; Gibson, Tillman

The College offers the four year Bachelor of Science in Environmental Health degree with two options and a two year Associate of Science degree.

Option I, the Bachelor of Science degree, requires three academic years of study at Missouri Southern preceded or followed by successful completion of three trimesters at the Water and Wastewater Division of Crowder College, Neosho, Missouri 64850. The student holds membership in only one student body at a time. At Missouri Southern the student pays the same fees as any other student if residency requirements have been met.

Option II, the Bachelor of Science degree, requires four complete academic years at Missouri Southern including a semester internship. Plans for the internship should be made with the student's advisor during the spring semester of the junior year.

The Associate of Science degree is in affiliation with the Water and Wastewater Technical Division of Crowder College, Neosho, Missouri 64850. The combination of Missouri Southern requirements that are basic to all combined associate degrees, the specific courses required

for the associate degree in Environmental Health Technology, plus completion of a minimum of three trimesters of approved study at the Water and Wastewater Technical Division of Crowder College will qualify the student for the Associate of Science degree. The student may complete the requirements at either school first, but is a member of only one student body at a time.

BACHELOR OF SCIENCE ENVIRONMENTAL HEALTH TECHNOLOGY MAJOR

	Semester Hours	
General Education Requirements	31	
Upper Division Hours 40		
Biology and Environmental Health Core	37	
EH 110	Man and Environment	4
Bio 112	Botanical Survey	3
Bio 122	Zoological Survey	3
Bio 231	Medical Microbiology	5
Bio 306	Human Physiology and Anatomy	
OR		
Bio 431	Animal Physiology	5
Bio 442	Invertebrate Zoology or approved substitute	5
EH 300	Earth Environments	4
EH 312	Environmental Biology	4
EH 370	Environmental Health	4
Mathematics and Physical Science Requirements	25	
Math 140	College Algebra and Trigonometry	5
Chem 101	General Chemistry I	5
Chem 102	General Chemistry II	5
Chem 201	Analytical Chemistry I	5
Chem 300	Introduction to Modern Organic Chemistry	5
Business Requirement	12	
Acct 201	Principles of Accounting I	3
Econ 201	Principles of Economics (Macro)	3
MM 350	Principles of Management	3
MM 352	Personnel Management	3

OPTION I WATER AND WASTEWATER MANAGEMENT

Water and Wastewater Technical School **30**
(Upper Division Hours Awarded 20)

College Computer Requirement

Comp 115 Computing I or Computer Course approved by Biology Department **2-3**
137-138

OPTION II INSTITUTIONAL AND COMMUNITY HEALTH

Bio 361	Parasitology	4
OR		
Bio 422	Invertebrate Zoology	5
Bio 402	General Ecology	4
OR		
Bio 481	Aquatic Biology	4
EH 450	Internship in Environmental Health	1-8

College Computer Requirement

Comp 115 Computing I or Computer Course approved by Biology Department **2-3**
124-125

ASSOCIATE OF SCIENCE ENVIRONMENTAL HEALTH TECHNOLOGY MAJOR

General Education Requirements (9 hours satisfied by Major requirements) **24**
Biology and Environmental Health Core **8-9**

Bio 101	General Biology	4
Bio 231	Medical Microbiology	5
OR		
Bio 312	Environmental Biology (If WWTS completed)	4
Physical Science Requirement		10
Chem 101	General Chemistry I	5
Chem 102	General Chemistry II	5

Water and Wastewater Technical School **30**
72-73

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5299
Environmental Health Major

****Prescribed 48 week course at Water and Wastewater School-30 Hrs**

FRESHMAN YEAR

1st Semester		Hours
Course		
Chem 101	General Chemistry I	5
Bio 101	General Biology	4
Math 140	Algebra and Trigonometry	5
Psy 120	Freshman Orientation	1
HPER 101	Physical Education	2
		17

2nd Semester		Hours
Course		
Chem 102	General Chemistry II	5
Bio 312	Environmental Biology	4
Eng 101	Composition	3
Gen Ed	[Literature or Fine Arts]	3
Gen Ed	[Hist 110 or PSc 120]	3
		18

Summer Semester		Hours
Course		
Gen Ed	[Psy 100 or Soc 110]	3
Comm 100	Oral Communication	3
		6

[] Department Recommendations

For additional information contact:

Dr. Gerald Elick
Office: 308-C Reynolds Hall
Phone: Ext. 278
OR

Mr. David Tillman
Office: 310 Reynolds Hall
Phone: Ext. 278

**This work may be taken prior to entering Missouri Southern or after completing work on College campus.

Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 1299
Environmental Health Technology Major

FRESHMAN YEAR

1st Semester		Hours
Course		
Eng 101	Composition	3
Math 140	Algebra & Trigonometry	5
Bio 101	General Biology	4
Psy 100	[General Psychology]	3
HPER 101	Physical Education	2
Psy 120	Freshman Orientation	1
		18

2nd Semester		Hours
Course		
Bio 112	Botany Survey (Bio 101)	3
Eng 102	Composition	3
Hist 110	U.S. History	3
Art 110	Art Appreciation	3
HPER 160	Personal Health	2
Eng 261	Masterpieces of World Literature	3
		17

SOPHOMORE YEAR

1st Semester		Hours
Course		
Bio 122	Zoology (Bio 101)	3
Chem 101	General Chemistry I (Math 140)	5
Econ 201	Principles of Economics	3
Comm 100	Oral Communication	3
Acct 201	Principles of Accounting	3
		17

2nd Semester		Hours
Course		
Chem 102	General Chemistry II (Chem 101)	5
Bio 231	Medical Microbiology	5
EH 300	Earth Environments	4
MM 350	Principles of Management	3
		17

JUNIOR YEAR

1st Semester		Hours
Course		
Chem 201	Analytical Chemistry I	5
Bio 306	Human Physiology and Anatomy	5
OR		
Bio 431	Animal Physiology	5
Bio 312	Environmental Biology	4
PSc 120	Gov't: U.S., State & Local	3
		17

2nd Semester		Hours
Course		
Chem 300	Introduction to Modern Organic Chemistry	5
Gen Ed	Literature or Fine Arts	3
MM 352	Personnel Management	3
EH 370	Environmental Health	4
		15

SENIOR YEAR

Option I

Three trimesters of study at the Water and Wastewater Division of Crowder College. (This work may be taken prior to entering Missouri Southern)

SENIOR YEAR

Option II

1st Semester		Hours
Course		
Bio 361	Parasitology	4
OR		
Bio 422	Invertebrate Zoology	5
Bio 402	Ecology	5
OR		
Bio 481	Aquatic Biology	4
Comp 115	Computing I	3
		11-12

SENIOR YEAR

Option II

2nd Semester		Hours
Course		
EHT 450	Internship	1-8
		1-8

() Prerequisites

[] Department Recommendations

For additional information contact:

Dr. Gerald Elick
Office: 308-C Reynolds Hall
Phone: Ext. 278
OR

Mr. David Tillman
Office: 310 Reynolds Hall
Phone: Ext. 278

INDUSTRIAL ARTS

FACULTY:

Adams, Morgan, Nickolaisen, Sutton

The Industrial Arts curriculum leads to the Bachelor of Science in Education degree with a major in Industrial Arts. The student must complete the required Industri-

al Arts courses, meet the general education requirements of the College, and complete the professional education requirements for a teaching certificate. Industrial Arts courses required for the major meet the Missouri Certificate requirements to teach Industrial Arts in Grades K-12.

Industrial Arts majors should apply to the Department of Education for admission to teacher education during the second semester of their sophomore year. The Teacher Education section of this catalog should be consulted for criteria for admission to the professional semester.

A person choosing a single teaching field may also earn a minor in Industrial Arts. The required courses for the minor meet the Missouri Certification requirements to teach Industrial Arts in grades K-9.

BACHELOR OF SCIENCE WITH A MAJOR IN INDUSTRIAL ARTS

Semester Hours

General Education Requirements		46
Industrial Arts & Education Requirements		80

IA 300	Woodworking & Wood Construction	4
IA 301	Wood Technology, Processes & Products	4
IA 310	Introduction to Plastics*	3
IA 321	Industrial Electricity	3
IA 322	Electricity/Electronics*	3
IA 335	Shop Organization & Management	3
IA 340	Power Technology	3
Drafting and Design courses		9
Machine Technology courses		7
Psy 110	Psychology of Human Development	5
Educ 200	Field Experiences	1
Educ 300	Clinical Experiences	2
Educ 302	Exceptional Child	2
Educ 330	Structures of Teaching	2
Educ 331	Microteaching	2
Educ 341	Teaching I.A. in Secondary School	2
Educ 370	Media	2
Psy 310	Educational Psychology	2
Educ 402	Foundations of Education	2
Educ 412	Measurement and Evaluation	2

Educ 422 Reading in Secondary School	2
Educ 432 Critical Issues	2
Educ 462 Student Teaching	8
Electives (at least 5 credit hours)	5
	126

Minor in Industrial Arts

IA 300 Woodworking and Wood Construction	3
IA 310 Introduction to Plastics	3
IA 321 Industrial Electricity	3
IA 335 Shop Organization & Management	3
IA 340 Power Technology	3
Machine Technology Courses	3
Drafting and Design Courses	6
	24

Suggested Order of Study**BACHELOR OF SCIENCE IN EDUCATION DEGREE**
Major Code 0839
Industrial Arts Major**FRESHMAN YEAR**

Course	Hours
Eng 101 Composition	3
Psy 120 Freshman Orientation	1
Mach 100 Intro Machine Tool	4
Draf 110 Intro Drafting	3
HPER 101 Intro to P.E.	2
	13

2nd Semester

Draf 130 Machine Drafting	3
Eng 102 Composition	3
Econ 180 American Economics	3
HPER 160 Personal Health	2
Math 130 College Algebra	3
Hist 110 U.S. History	3
	17

SOPHOMORE YEAR

Course	Hours
Comm 100 Oral Communication	3
Bio 101 General Biology	4
Mach 160 Inspection & Gaging	2
Art 100 Art Composition	3
IA 340 Power Technology	3
	15

2nd Semester

Draf 220 Architectural Drafting	3
Phys 100 Physical Science	5
IA 310 Intro to Plastics	3
Educ 200 Field Experiences	1
Psy 100 Psychology of Human Development	5
	17

JUNIOR YEAR

Course	Hours
Educ 300 Clinical Experience	2
IA 300 Woodworking & Wood Construction	4
Educ 330 Structures of Teaching	2
IA 321 Industrial Electricity	3

Educ 331 Microteaching	2
Educ 370 Media	2
	15

2nd Semester

Educ 302 Exceptional Child	2
IA 301 Wood Technology	4
Gen Ed [Fine Art or Literature]	3
IA 322 Electricity/Electronics	3
PSc 120 Gov't, U.S., State & Local	3
	15

SENIOR YEAR

Course	Hours
Eng 281 or 282 American Literature	3
Educ 422 Reading in the Secondary School	2
IA 335 Shop Organization & Management	3
Psy 310 Education Psychology	2
Electives	5
	15

2nd Semester

Educ 402 Foundation of Education	2
Educ 341 Teaching I.A. in the Secondary School	2
Educ 432 Critical Issues	2
Educ 462 Student Teaching	8
Educ 412 Measurement & Evaluation	2
	16

For additional information contact:
Mr. Dennis K. Sutton
Office: 117 Matthews Hall
Phone: Ext. 305

LAW ENFORCEMENT**FACULTY:**

Seneker, Mosher, Richards, Spurlin, Terry, Whittle, Williams

The Associate of Science degree in Law Enforcement helps prepare students for entrance into police work, a field which has become highly specialized and complex at the local, state, and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

The College also offers the 4-year Bachelor of Science degree in Criminal Justice Administration. (See page 138.)

ASSOCIATE OF SCIENCE IN LAW ENFORCEMENT

	Semester	Hours
General Education Requirements		24
Law Enforcement Requirements		48
Soc 110 Introduction to Sociology	3	
Soc 210 Social Problems*	3	
Soc 312 Juvenile Delinquency*	3	
Soc 351 Criminology*	3	

LE 100 Introduction to Law Enforcement	3
LE 110 Police Organization and Administration	2
LE 150 Interview and Report Writing	2
LE 190 Supervised Police Work*	6
LE 200 Criminal Investigation	3
LE 210 Criminal Procedures	3
LE 290 Police Supervision and Management	3
LE 250 Criminal Law	3
Psy 100 General Psychology	3
Psy 221 Psychology of Personal Adjustment	3
PSc 120 Gov't, U.S., State, Local	3
HPER 220 First Aid	2

72

*See course descriptions for prerequisites.

Suggested Order of Study**ASSOCIATE OF SCIENCE DEGREE**

Major Code 5505
Law Enforcement Major

FRESHMAN YEAR

Course	Hours
Eng 101 Composition	3
Math 110 Intro to College Math	3
Soc 110 Intro to Sociology	3
LE 100 Intro to Law Enforcement	3
LE 110 Police Organization and Administration	2
Psy 120 Freshman Orientation	1
HPER 160 Personal Health	2
	17

2nd Semester

Psy 100 General Psychology	3
Phys 100 Fundamentals of Physical Science	5
Soc 210 Social Problems	3
LE 150 Interview and Report Writing	2
PSc 120 Gov't: U.S., State, Local	3
	16

Summer Semester

LE 190 Supervised Police Work	6
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SOPHOMORE YEAR

Course	Hours
Comm 100 Oral Communication	3
Soc 351 Criminology	3
LE 200 Criminal Investigation	3
LE 210 Criminal Procedures	3
Psy 221 Psychology of Personal Adjustment	3
	15

2nd Semester		
Soc 312	Juvenile Delinquency	3
HPER 220	First Aid	2
LE 250	Criminal Law	3
LE 290	Police Supervision & Management	3
Gen Ed	(Fine Arts)	3
Advisor Approved Elective		3
		17

For additional information contact:
Mr. Don Seneker
Office: 104 Police Academy
Phone: Ext. 302

MACHINE TECHNOLOGY

FACULTY:

Nickolaisen

The Machine Technology curriculum leads to an Associate of Science degree in Machine Tool Technology. The curriculum prepares individuals to enter employment as machinists or technicians in the manufacturing or chemical processing industries.

The requirements for the degree include a broad base of technical and general education courses that will assist the individual in securing employment and responding to future technological changes.

Machine Technology majors are required to take courses in mathematics, physical science, computer programming, Computer Aided Drafting (CAD) and Computer Numerical Control (CNC). These courses are combined with machine tool, drafting, and technical electives to provide a curriculum that will assist the individual in developing the strong, yet flexible, technical background needed in today's industrial assignment.

Many students who complete the Associate of Science Degree in Machine Technology expand their education by pursuing a baccalaureate degree in Industrial Arts or Management Technology.

ASSOCIATE OF SCIENCE IN MACHINE TECHNOLOGY

	Semester Hours
General Education Requirements	24
Machine Technology Requirements	28
Mach 100 Intro to Machine Tool Processes	4
Mach 105 Intermediate Machine Tool Processes*	4
Mach 200 Advanced Machine Tool Processes*	4

Mach 250	Numerical Control and Computer Numerical Control Machining*	4
Mach 290	Production Planning & Control*	3
Draf 110	Introductory Drafting	3
Draf 130	Machine Drafting*	3
Math 112	Trigonometry	3
Machine Technology Electives (at least 10 hours)		10
Mach 160	Inspection and Gaging*	2
Mach 260	Fundamentals of Metallurgy	3
IA 310	Intro to Plastics*	3
IA 321	Industrial Electricity	3
IA 322	Electricity/Electronics*	3
IA 340	Power Technology	3
Draf 115	Intro to Computer Aided Drafting	1
Draf 202	Tool Design*	3
Draf 204	Mechanical Design*	3
Draf 260	Computer Aided Drafting*	3
Comp 115	Computing I*	3
		62

*See course descriptions for prerequisites.

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5399
Machine Technology Degree

FRESHMAN YEAR

1st Semester		Hours
Course		
Mach 100	Intro Machine Tool Processes	4
Draf 110	Intro Drafting	3
Math 130	College Algebra (or 30 Intermediate Algebra)	3
Eng 101	Composition	3
HPER 101	Intro to P.E.	2
Psy 120	Freshman Orientation	1
		16

2nd Semester		Hours
Mach 105	Intermediate Machine Tool Processes	4
Draf 130	Machine Drafting	3
Math 112	Trigonometry	3
Psy 100	General Psych or Soc 110 Intro Sociology	3
Elective		3
		16

SOPHOMORE YEAR

1st Semester		Hours
Mach 200	Advanced Machine Tool Processes	4
Gen Ed	(Hist 110, Hist 120 or PSc 120)	3
Gen Ed	(Fine Art or Literature)	3
Technical Electives		6
		16

2nd Semester		Hours
Mach 250	Numerical Control & Computer Numerical Control	4
Mach 290	Production Planning and Control	3
Phys 100	Intro to Physical Science	5
Technical Electives		4
		16

For additional information contact:
Mr. Robert H. Nickolaisen
Office: 224 Matthews Hall
Phone: Ext. 351 or 224

MEDICAL TECHNOLOGY

FACULTY:

Baiamonte, Mosher

The Bachelor of Science in Medical Technology degree is granted to students who complete the required program of study satisfactorily. These requirements include the basic requirements for all Bachelor of Science Degree programs, required science and other supportive courses plus 32 hours of professional course credits. The completion of this degree is required before an individual is eligible to take the certifying examination.

Missouri Southern has affiliation agreements with the schools of Medical Technology at St. John's Regional Medical Center, Joplin; St. John's Regional Medical Center, Springfield, MO; Lester E. Cox Medical Center, Springfield, MO; and Research Medical Center, Kansas City, MO. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student. Students should be aware that enrollment in the professional schools is limited. Each of the professional schools has its own admission criteria and selects those students to be admitted to a class from the applicants for that class. In general, this selection is based on the academic record or demonstrated aptitude for the medical field. Students are responsible for filing their own applications for admission with the professional schools.

Students should file applications with the professional school during the early fall of the junior year, or approximately ten (10) months prior to the date expecting to enter.

Students who are unsuccessful in gaining admission to a professional school can normally select and complete another science major with the advice of the appropriate department head.

A student may enroll in the professional courses either at the hospital-based school or through Missouri Southern depending on the policies of the hospital-based school. Students enrolled at the hospital-based school are not considered members of the Missouri Southern student body, since the hospital-based school in such cases is considered as any other accredited institution of higher education. A student enrolling through Missouri Southern is considered a member of the College student body and is, therefore, eligible for benefits offered all students.

The weekly time requirements for the professional medical technology courses (400 level) listed are based on the minimum requirements for a course meeting for a normal academic term for a minimum of 16 weeks. Actual scheduling of classes may vary according to custom of the individual professional school to meet these minimum total hour requirements.

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

Semester Hours

General Education Requirement		46**	34
Biology Requirement			24-25
Bio 121	General Zoology	4	
Bio 231	Fundamentals of Medical Microbiology*	5	
Bio 305	Genetics*	4	
Bio 306	Human Physiology and Anatomy*	5	
Bio 456	Immunology*	3	
Bio 361	Parasitology*	4	
OR			
Bio 362	Virology*	3	
Chemistry requirement			24-25
Chem 101	General Chemistry I*	5	

Chem 102	General Chemistry II*	5
Chem 201	Analytical Chemistry I*	5
Chem 300	Introduction to Modern Organic Chemistry*	5
Chem 351	Biochemistry***@	4
OR		
Chem 421	Analytical Chemistry II*	5

Other Requirements 16

Phys 151	Elementary College Physics I*	5
Phys 152	Elementary College Physics II*	3
Math 140	Algebra and Trigonometry	5
Comp 115	Computing I	3

400 Level Medical Technology Courses (at Hospital) 32

130-132

*See course descriptions for prerequisites.

**Required Biology, Physics, and Mathematics courses simultaneously satisfy General Education and Major requirements.

@ St. John's, Springfield, MO, requirement.

Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 1223
Medical Technology Major

FRESHMAN YEAR

1st Semester		Hours
Chem 101	General Chemistry I	5
Eng 101	Composition	3
Math 140	Algebra and Trigonometry	5
HPER 101	Physical Activity	2
Psy 120	Freshman Orientation	1
		16

2nd Semester		Hours
Chem 102	General Chemistry II	5
Bio 121	General Zoology	4
Gen Ed	[History 110 or 120]	3
Eng 102	Composition	3
Comp 115	Computing I	3
		18

SOPHOMORE YEAR

1st Semester		Hours
Chem 201	Analytical Chemistry I (Chem 102)	5
Bio 231	Fundamentals of Medical Technology	5
Gen Ed	[Literature]	3
Gen Ed	[Behavioral or Social Science]	3
HPER 160	Personal Health	2
		18

2nd Semester		Hours
Chem 300	Intro to Modern Organic Chemistry (Chem 102)	5
Bio 305	Genetics	4
Gen Ed	[Communications]	3
Gen Ed	[PSc 120]	3
MT 200	Intro to Medical Technology	1
		16

JUNIOR YEAR

1st Semester		Hours
Phys 151	Elementary College Physics I (Math 140)	5
Bio 306	Human Physiology and Anatomy (Bio 121)	5
OR		
Bio 362	Virology	3-4
Gen Ed	[Literature or Fine Art]	3
		16-17

2nd Semester		Hours
Chem 421	Analytical Chemistry II (Chem 201)	5
Phys 152	Elementary College Physics II (Phys 151)	3
Bio 456	Immunology	3
Gen Ed	[Literature or Fine Art]	3
Gen Ed	[Econ 180]	3
		17

SENIOR YEAR

1st Semester		Hours
(At an approved School of Medical Technology)		
MT 401	Clinical Chemistry	10
MT 403	Hematology	6
		16
2nd Semester		Hours
(At an approved School of Medical Technology)		
MT 402	Clinical Microscopy	1
MT 404	Serology	3
MT 405	Clinical Microbiology	7
MT 406	Immunohematology	3
MT 407	Special Topics in Medical Technology	2
		16

() Prerequisites
[] Department Recommendations

For additional information contact:
Dr. Vernon Baiaomonte
Office: 218 Reynolds Hall
Phone: Ext. 241
OR
Dr. Melvyn Mosher
Office: 220 Reynolds Hall and 105 Police Academy
Phone: Ext. 292 or 211

MILITARY SCIENCE

FACULTY:

Durst, Head; Hartnett, Langan, Webster, Dobbs

Military Science provides an additional dimension to a student's educational program. Students who participate in Military Science courses receive leadership, managerial, and confidence-building training

that will be of great value to them in any career they seek.

The Military Science program at MSSC is divided into two elective programs: the Basic Course and the Advanced Course.

The Basic Course encompasses two freshman and two sophomore Military Science courses. There are no prerequisites for participating in any of the four courses offered; they may be taken in any sequence and participants incur no military obligation by taking these courses. These courses are similar to all other college courses in that they carry academic credit and do not have uniform or appearance requirements. The primary objective of Basic Course subjects is to provide students with an understanding of the United States Army and to qualify them for the Advanced Course in the event they elect to continue in the Military Science program. Subjects taught in the Basic Course include Leadership, History of ROTC, Survival, Marksmanship, Rappelling, and Land Navigation.

The Advanced Course includes the Junior and Senior courses. The primary objective is to prepare qualified students for commissioned officer service in the United States Army, the United States Army Reserve, or the National Guard. All Advanced Course students receive \$100 per month for up to 10 months of the Junior and Senior year and attend Advanced Camp, normally during the summer between the Junior and Senior year. Compensation is received for travel and for time spent at camp. Advanced Course students, upon graduation, are commissioned Second Lieutenants and serve either three years in the Active Army or they may serve three to six months in the Active Army and fulfill the remainder of their commitment in a Reserve or National Guard unit.

All students enrolled in the Advanced Course, prior to being commissioned as officers in the Army, are required to take at least one course in behavior, written communication skills, military history, national security policy, and management.* Course work in management and national security policy may be deferred, with the permission of the department head, if their completion would require the student to

carry an academic overload. The military history requirement is satisfied with Hist 400.

Two and three year scholarships are awarded annually on a competitive basis. Any full-time college student may apply. All scholarships pay for tuition, books, fees, and other educational expenses. They also pay the student \$100 a month during each academic year.

Students with at least two academic years remaining in their course of study (undergraduate, graduate or combination) who have not completed more than two semesters of Military Science can complete the Basic Course requirements by participating in Basic Camp or by attending Summer School. Pay and allowances are received for Basic Camp participants. (See MS 298)

All non-U.S. citizens, in order to complete requirements, must have department permission prior to enrolling in Military Science.

Students with prior Military Science training, including junior ROTC, may be eligible for advanced placement in the Military Science program. A minor in Military Science may be obtained by completion of not less than 21 hours of MS courses to include: MS 301, 302, 411, 412, Hist 400.

Textbooks are supplied for all ROTC classes. Uniforms are not required for Freshman and Sophomore-level students except MS 122. Advanced Course students are furnished all required uniform items.

*To determine suitable courses, contact the Military Science Department.

NURSING

ASSOCIATE OF SCIENCE DEGREE FACULTY:

Ipock, Head; Ackiss, Elgin, Jacobs, Ketchum, Myer, Ross

Missouri Southern offers a program leading to an Associate of Science Degree in Nursing. Upon satisfactory completion, the graduate is eligible to apply to write the examination for licensure as a Registered Nurse (R.N.). This program is NLN accredited.

Admission to Missouri Southern does not automatically confer admission to the nursing program. In addition to meeting admission requirements for the College, candidates who are interested in a career in nursing as a Registered Nurse (R.N.) are required to apply for admission to the Department of Nursing, Kuhn Hall. Applications should be submitted prior to February 1 preceding the Fall Semester of entrance. Each application is reviewed by the Selection Committee for the Department of Nursing.

In determining a candidate's eligibility for admission, basic qualifications compatible with the profession of nursing are given consideration including test results, demonstrated scholastic capability, and references establishing personal abilities. Specific admission criteria are available from the Nursing Department in Kuhn Hall.

Based upon the Committee's evaluation, each application is placed in one of three categories: 1) approved for admission; 2) approved on condition that certain stated requirements are met; or 3) denied admission.

Tuition and fees for nursing students include those listed for all college students. Additional expenses applicable to nursing students are:

1. School uniforms, supplies and equipment. Minimum of \$175.
2. Graduation pin, uniform and licensing application fee. Minimum of \$175.
3. Eight week summer session: transportation, room and meals for off-campus clinical laboratory. Costs vary based on individual arrangement, laboratory schedules, and available housing facilities.

Courses to complete general education requirements should be selected with advisor approval. Nursing courses must be taken in the prescribed sequence. Supporting science courses must be completed with a grade of C or above, prior to or concurrent with the designated nursing course, for retention in the nursing program. (See Suggested Order of Study)

Supervised clinical laboratory periods are an integral part of each nursing course. During clinical laboratory periods students give direct care to patients under the guidance of the nursing faculty. Clinical laboratory periods are conducted in a

variety of community health agencies. Three major agencies include: Freeman Hospital, St. John's Regional Medical Center, and Oak Hill Hospital, Joplin.

ASSOCIATE OF SCIENCE DEGREE IN NURSING

	Semester	Hours
General Education Requirements	24	
(Some satisfied by required courses)		
Nursing Requirements	52	
Nurs 100	Introduction to Nursing Process	6
Nurs 110	Nursing Process with the Developing Family*	9
Nurs 130	Nursing Process in Psychiatric-Mental Health Nursing*	4
Nurs 220	Nursing Process with Adults I*	9
Nurs 240	Nursing Process with Adults II*	9
Bio 221	Human Anatomy and Physiology*	5
Chem 100	Introduction to Chemistry*	5
Bio 231	Fund. of Medical Microbiology*	5
		76

*See course descriptions for prerequisites.

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5208
Nursing Major

FRESHMAN YEAR

1st Semester		
Course		Hours
Nurs 100	Introduction to Nursing Process	6
Bio 221	Human Anatomy and Physiology*	5
Eng 101	Composition	3
Math 30	Intermediate Algebra (or above)	3
		17

*Placement in Bio 221 will depend on pre-entrance Zoology test scores or completion of Bio 121. Course must be completed prior to or concurrent with Nurs 100.

2nd Semester		
Nurs 100	Nursing Process with Developing Family	9
Chem 100	Introduction Chemistry**	5
Psy 100	General Psychology or	
Soc 110	Introduction to Sociology	3
		17

**Chem 100 must be completed prior to or concurrent with Nurs 110.

Summer		
Nurs 130	Nursing Process in Psychiatric-Mental Health Nursing	4

SOPHOMORE YEAR

1st Semester		
Nurs 220	Nursing Process with Adults I	9
Bio 231	Fundamentals of Medical Microbiology***	5
Gen Ed	(Literature or Fine Art)	3
		17

***Bio 231 must be completed prior to or concurrent with Nurs 220.

2nd Semester		
Nurs 240	Nursing Process with Adults II	9
HPER 101	Intro to Physical Activity	2
Comm 100	Oral Communication	3
Gen Ed	(PSc 120 or Hist 110)	3
		17

For additional information contact:
Dr. Betty Ipock
Office: 208 Kuhn Hall
Phone: Ext. 322

NURSING

BACHELOR OF SCIENCE DEGREE

FACULTY:

Ipock, Ackiss, Elgin, Jacobs, Ketchum, Myer, Ross

The Baccalaureate Degree in Nursing is a completion program for registered nurses. The program provides educational opportunities relevant to interests and needs of experienced nurses. Flexible scheduling accommodates employed nurses as much as possible. One of the basic assumptions of the program is that the student has achieved nursing knowledge at the secondary level of nursing practice. Thirty (30) credit hours of lower division nursing credit will be granted to registered nurses for whom college credit has not been given previously for nursing courses and who have met admission criteria.

Admission into the program is on a selective basis due to space limitations in clinical areas. Admission criteria includes current registration in the state of Missouri (or eligibility therefor), minimum of one year work experience in nursing or two years out of the previous five, cumulative GPA of 2.5 (on 4.0 scale) or above on at least thirty (30) credit hours of college level course work, documentation of current professional liability insurance coverage, graduate of state-approved or ac-

credited basic nursing program, references, and personal interview.

Application blanks and further information can be obtained from the Nursing Department in Kuhn Hall. Once a student enters the upper division nursing program it is mandatory to complete the program within five years. Priority for enrollment in nursing courses will be given to students who are continuously enrolled and re-admission will be contingent upon space available.

BACHELOR OF SCIENCE DEGREE IN NURSING

	Semester	Hours
General Education Requirements (est. add.)		33
Nursing Requirements		31
Nurs 300	Process of Professional Nursing	3
Nurs 310	Nursing Management and Group Dynamics	3
Nurs 330	Advanced Health Assessment*	6
Nurs 400	Nursing Process in Community Health*	6
Nurs 410	Gerontological Nursing*	3
Nurs 420	Introduction to Nursing Research*	6
Bio 308	Pathophysiology	4
		64

*See course descriptions for prerequisites.

Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 3200
Nursing Major

JUNIOR YEAR

1st Semester		Hours
Course		
Social Science (Psy or Soc)*		3
Math 110 (OR 130 OR 131)*		3
Nurs 300	Process of Professional Nursing	3
Nurs 310	Nursing Management and Group Dynamics	3
Bio 308	Human Pathophysiology	4
		16

2nd Semester		
Econ 180 OR 201*		3
Nurs 330	Advanced Health Assessment	6
Eng 103 (OR 102)*	Technical Writing	3
Literature or Fine Art (Elective)*		3
		15

SENIOR YEAR

1st Semester

Nurs 400	Nursing Process in Community Health	6
Psy 311	Statistics	3
History or Political Science*		3
Educ 330	Structure of Teaching*	2
Educ 331	Microteaching*	2
		16

2nd Semester

Upper Division Elective*		3
Nurs 410	Gerontological Nursing	3
Nurs 420	Introduction to Nursing Research	6
Physical Education*		2
Humanities Elective*		3
		17

*Courses which could be taken in advance of selection into the upper division nursing program.

For additional information contact:

Dr. Betty Ipock
Office: 208 Kuhn Hall
Phone: Ext. 322

PARAMEDIC PROGRAM

In cooperation with the college's Division of Continuing Education, the School of Technology also offers certificate programs preparing the student to take State Certifying examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area emergency medical services and hospitals. Students seeking information about these programs should check with the Director of Continuing Education for details about scheduling of the courses. The curriculum and its length varies with current Missouri State requirements.

RADIOLOGIC TECHNOLOGY

FACULTY:

Beals

The Associate of Science Degree in Radiologic Technology combines General Education courses, supportive courses in the Behavioral Sciences and Natural Sciences, and special courses in the field of Radiology including extensive clinical laboratory experiences. The clinical laboratory experiences are provided through agreements between Missouri Southern and St. John's Regional Medical Center or other accredited facilities. The student successfully completing the curriculum is

eligible to write the National Registry Examinations to become a Registered Technologist.

Completion of the degree requires the completion of General Education requirements for the Associate of Science Degree, all Radiologic Technology courses, Bio 221, Bio 240, Chem 100, and Psy 221. Applicants whose background has not prepared them for Bio 221 must meet these prerequisites before being admitted to the program.

Special admission procedures are required for admission to this program in addition to admission to Missouri Southern. These special admission procedures should be initiated a minimum of six months before the date the student plans to enter the program. Students may enter the program only at the beginning of the Fall Semester.

In addition to established fees for all college students, special fees of \$100 for the first semester and \$40 for each succeeding term, including summers, are required for enrollment in Radiology courses.

Students who are already Registered Radiologic Technologists may also enter this program.

Credit equal to the credit given at the time radiologic technologists enter Missouri Southern for Radiological courses is granted the individual. A minimum of 30 additional academic semester hours is required. This credit must include the general education requirements for the Associate of Science degree plus a concentration of courses in one of the subject-matter areas of business (Accounting and Secretarial Procedures or Business Management), behavioral sciences, or natural science (concentration in either Biology, Chemistry, or Physics).

ASSOCIATE OF SCIENCE IN RADIOLOGIC TECHNOLOGY

Semester Hours

General Education Requirements 24

Radiology Requirements 55

Rad 101	Introduction to Radiology*	3
Rad 111	Medical Terminology	3
Rad 121	Patient Care and Special Procedures in Radiology	3

Rad 132	Principles of Radiographic Exposure	3
Rad 142	Radiographic Positioning I	3
Rad 160	Film Critique	2
Rad 170	Radiologic Physics	3
Rad 180	Practicum in Radiology	4
Rad 241	Radiographic Positioning II	3
Rad 252	Radiographic Positioning III	3
Rad 282	Practicum in Radiology II	2
Rad 290	Practicum in Radiology III	4
Rad 299	Advanced Radiology	3
Bio 221	Human Anatomy and Physiology*	5
Chem 100	Elementary Chemistry**	5
Psy 221	Psychology of Personal Adjustment	3
Bio 240	Radiation Biology*	3

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*See course descriptions for prerequisites.

**Satisfies General Education requirement.

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5207

Radiologic Technology Major

FRESHMAN YEAR

Fall Semester

Course	Hours
Bio 221	Human Anatomy and Physiology** 5
Rad 101	Intro to Radiology 3
Rad 170	Radiologic Physics 3
Rad 142	Radiographic Positioning I 3
Psy 120	Freshman Orientation 1
HPER 101	Physical Education 2
	17

Spring Semester

Math 130	College Algebra OR	
Math 30	Intermediate Algebra	3
Psy 100	General Psychology	3
Bio 240	Radiation Biology	3
Rad 132	Principles of Radiographic Exposure	3
Rad 241	Radiographic Positioning II	3
		15

Summer*

Rad 160	Film Critique	2
Rad 180	Practicum in Radiology I	4
		6

SOPHOMORE YEAR

Fall Semester

Chem 100	Introductory Chemistry	5
Eng 101	Composition	3
Psy 221	Psychology of Personal Adjustment	3
Rad 111	Medical Terminology	3
Rad 252	Radiographic Positioning III	3
		17

Spring Semester

Gen Ed	Hist 110 or PSc 120	3
Comm 100	Oral Communications	3
Rad 121	Patient Care and Special Procedures	3
Rad 282	Practicum in Radiology II	2
Gen Ed	Literature or Fine Arts	3
	Elective	3
		17

Summer

Rad 290	Practicum in Radiology III	4
Rad 299	Advanced Radiology	3
		7

*Summer classes meet a minimum of 12 weeks.

**Placement in Bio 221 will depend on pre-entrance zoology test scores or completion of Bio 121.

For additional information contact:

Mr. Wiley Beals

Office: 300 Kuhn Hall

Phone: Ext. 323 or 322

OR

Mr. James K. Maupin

Office: 113 Police Academy

Phone: Ext. 328

SCHOOL OF TECHNOLOGY

COURSE DESCRIPTIONS

AUTOMOTIVE TECHNOLOGY (Auto)

Automotive Engines (F)

15.0803-102 6 hrs. cr.
The theory and application of internal combustion engine. Covers engine operation, cycles, design, and service of major components and accessory systems. The laboratory provides an opportunity to develop skills in the diagnosis and service of internal combustion engines and their supportive systems. Three hrs. lecture, six hrs. lab per week.

Automotive Electrical Systems (S)

15.0803-122 6 hrs. cr.
Study of electricity, as applied to ignition systems and electrical devices found on the internal combustion engine. Emphasis on the operation, diagnosis, and service of these systems. The laboratory period provides an opportunity to apply theoretical knowledge to practical problems. Three hrs. lecture, six hrs. lab per week.

Automotive Fuels, Fuel systems & Emission Control (S)

15.0803-124 6 hrs. cr.
The design, operating principles, and service procedures for automotive fuel and emission systems. The student will examine the refining of fuels, lubrication materials, and alternate fuels. Laboratory emphasis on the diagnosis and service of fuel and emission control systems. Three hrs. lecture, six hrs. lab per week. Prerequisite or Corequisite Auto 122.

Automotive Chassis, Brakes, and Suspension systems (F)

15.0803-202 6 hrs. cr.
Design, operating principles, and service procedures of modern motor vehicle chassis, suspension, and brake systems. Laboratory emphasizes the diagnosis, service, and replacement of these components. Three hrs. lecture, six hrs. lab per week.

Auto Transmission & Drive Trains (F)

15.0803-204 3 hrs. cr.
Design, operating principles, and service procedures of the automotive transmission and drive lines. Laboratory emphasis on the diagnosis and service of transmission and drive train systems and components. Four hrs. lecture, four hrs. lab per week for a half a semester.

Automotive Air Conditioning (F)

15.0803-222 3 hrs. cr.
An introduction to automotive air conditioning systems. Emphasis on service and diagnosis of air conditioning units on and off the vehicle. Four hrs. lecture, four hrs. lab per week for half

a semester. Prerequisite: Auto 122 Automotive Electrical Systems.

Diesel Engines (S)

15.0803-240 5 hrs. cr.
Theory of operation and servicing of diesel engines. The laboratory period will provide an opportunity to apply service and diagnostic techniques to current diesel engines. Three hrs. lecture, four hrs. lab per week. Prerequisite: Auto 102.

Auto Service Management (S)

15.0803-262 5 hrs. cr.
Principles of shop design, personnel management, service scheduling, and industrial safety. The laboratory provides the advanced student with the opportunity to gain knowledge and experience in a specialized area. Three hrs. lecture, four hrs. lab per week. Prerequisite: Auto 102, 122, 124, 202, and 222 with minimum grade of C.

Automotive Body and Paint (Demand)

15.0803-250 7 hrs. cr.
Auto body construction, repair, refinishing processes and materials. Laboratory provides an opportunity to repair various types of body damage and experiment in the use of repair and refinish materials. Three hrs. lecture, 12 hrs. lab per week.

Selected Topics in Automotive Technology (Demand)

15.0803-298 1-8 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites to be determined by the department and stipulated in the course syllabus.

Seminar in Auto Technology (Demand)

15.8003-498 1-3 hrs. cr.
Covers specialized knowledge and skills related to new developments in automotive design and service. Topics will vary by the semester and situation. Prerequisite: Associate Degree in Automotive Technology or senior standing in Management Technology.

Independent Study in Automotive Technology (Demand)

15.0803-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of automotive technology for advanced majors. Scope, depth, area of concentration, and credit are to be arranged when registering for the course. Offered by arrangement. Prerequisite: Completion of all required Automotive courses with minimum 3.0 GPA and permission of instructor.

AVIATION (Av)

Basic Pilot Training

15.801-200 3 hrs. cr.
An integrated course designed to meet ground school and flight training requirements for eligibility to take the Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, the course requires approximately 45 hours of dual and solo flight and check flight. Credit is awarded when the FAA certificate is obtained. Special fees and third class medical certificate are required. Special fees include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.

COMPUTER SCIENCE (Comp)

Introduction to Data Processing (F,S)

11.0101-100 3 hrs. cr.
Illustrates the use of computers in processing of information used by society in our daily lives. Looks at the hardware and software components of computer systems and how they work together. Considers number systems, basic problem analysis, logical block diagramming, and familiarization with higher-level programming languages. Satisfies a need for Computer Literacy for many individuals; a televised version of this course similarly satisfies such a need. Three hrs. lecture per week.

Introduction to Microcomputer Use (S)

11.0201-105 3 hrs. cr.
Trains persons not necessarily employed as computer professionals who nevertheless have a need to use a microcomputer in their careers. Using a wide variety of packaged software, shows how the microcomputer can be put to best use in a variety of applications with a minimum of programming effect. Three hrs. lecture per week. Labs by arrangement.

Computing I (F,S)

11.0201-115 3 hrs. cr.
An introduction to: (1) computer vocabulary; (2) computer coding systems; (3) microcomputer hardware and software; (4) problem analysis and program design; (5) program development and testing using BASIC. Students who have one unit of credit for a high school computer programming course, or the equivalent, need not take this class. Three hrs. lecture per week. Labs by arrangement.

Computing II (F,S)

11.0201-120 3 hrs. cr.
An introduction to: (1) mainframe hardware; (2) mainframe operating systems and program development software; (3) structured program design concepts and techniques; (4) program development and testing using a structured language. Three hrs. lecture per week. Labs

by arrangement. This class is a prerequisite for Comp 230, 234, 240 & 250. Prerequisites: Math 130 or 131; Comp 115 or 1 unit of high school programming or equivalent knowledge.

Adv Personal Computing w/ Graphics (F,S)

11.0201-200 3 hrs. cr.
An introduction to: (1) knowledge, skills and programming techniques which are needed in order to develop microcomputer software for business and industry; (2) techniques for designing and producing microcomputer graphics displays. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 115 or 1 unit of high school computer programming or equivalent knowledge.

Block Structured Programming (S)

11.0201-210 3 hrs. cr.
Introduces the practice of logical block structured, hierarchical design of programs with strong data typing and familiarizes the student with the modern languages which best support these concepts. The languages Pascal, Ada, PL/I, and Modula will be presented with particular emphasis and practice in the language Pascal. The ability to efficiently design and program significant tasks in Pascal will be the primary goal. Lecture three hrs. per week. Labs by arrangement. Prerequisite: Comp 115 or equivalent.

Report Program Generation (F,S)

11.0201-230 3 hrs. cr.
Introduces one or more programming languages which are designed for quick and efficient production of business reports, e.g. RPG II. Includes language syntax and practice in preparing, compiling, and executing applications of increasing complexity. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 120.

Business Data Processing Techniques (F)

11.0201-234 3 hrs. cr.
Methods and techniques of solving business related problems using a business oriented language (COBOL) on a digital computer, including payroll systems, inventory control, billing systems, sorting techniques, and file maintenance. Three hrs. lecture per week w/ open labs to complete assignments. Prerequisite: Comp 120.

Statistical Computer Applications (F,S)

11.0201-240 3 hrs. cr.
A continuation of programming technique/development (FORTRAN), employing principles presented in previous courses. Emphasis on non-routine types of applications, including quality control, statistics, curve fitting, forecasting, etc. Three hrs. lecture per week; open labs as required. Prerequisites: Comp 120.

Principles of Digital Computers (F,S)

11.0201-250 3 hrs. cr.
Provides the necessary foundation for the continuing study of computing machines. Includes the concepts of notation, binary system, systems conversion, representation of a number with an arbitrary base, boolean algebra, micro, machine and assembler programming, and other discrete mathematical topics. Three hrs. lecture per week; labs by arrangement. Prerequisite: Comp 120.

Selected Topics in Comp Science (Demand)

07.0305-298 1-8 hrs. cr.
Study of special topics in Computer Science. Each offering will be on a special topic or topics not normally included in another course. Prerequisites will be specified by the department in a syllabus.

Systems Concepts (F,S)

11.0501-302 3 hrs. cr.
The design characteristics of the most common types of on-line business computer applications. An important course for students of business or computer and information science. Useful in the study of management information systems, business data processing, accounting, systems science, or systems analysis and design. Also of interest to computer programmers, systems analysts, accountants and business managers, and anyone faced with the challenge of developing an on-line design. A practical rather than a theoretical approach to systems study. Three hrs. lecture per week. Prerequisite: Comp 230 or above.

COMPUTER/INFORMATION SCIENCE (CIS)

Operations Modeling (F)

11.0401-320 3 hrs. cr.
Analytical and simulation techniques used in the modeling of business operations for the purpose of managerial decision support. Typical problem areas include scheduling, service queues, resource allocation, production planning, transportation, distribution, marketing, product mix, forecasting, bidding, portfolio analysis, etc. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 120 and Math 310, 361 or GB 321 and upper division standing or consent of instructor.

Assembler Language (f)

11.0201-330 3 hrs. cr.
An introduction to a computer's low level programming. Topics will include an introduction to assembler language format, decimal and integer arithmetic, editing, and execution instructions. Also debugging program construction will be applied. Numerous problems will be assigned. Three hrs. lecture per week. Prerequisite: One 200-level programming class.

Advanced Structured COBOL (Demand)

11.0201-334 3 hrs. cr.
A continuation of the study of COBOL begun in Comp 234. Employs structured methodologies and advanced features of the COBOL language that were not covered in Comp 234. File creation and maintenance will be major topics. Prerequisite: Comp 234. Three hrs. of lecture per week.

Analog Methodology w/ Digit Computers (S)

11.9999-340 3 hrs. cr.
Simple methods and techniques of solving systems of simultaneous differential equations on digital computers. Includes the simulation of non-linear functions, block diagramming of systems, familiarization with La Place methods. Various design problems and physics and biological applications will be treated. Three 1 hr. lectures per week. Prerequisite: Math 250.

Data Structures and Techniques (S)

11.0401-350 3 hrs. cr.
Basic concepts of information and techniques for operating on data/program structures. Develops concepts and use of program control constructs, information structures, files, searching, sorting, updating, linking, and attendant program documentation, debugging and testing. Prerequisite: Comp 120 and upper division standing or consent of instructor. Three hrs. of lecture per week.

Information System Analysis (F)

11.0502-410 3 hrs. cr.
Develops the information system concept through study of structured analysis methodologies. Examines the roles of systems analysis and the system analyst. Demonstrates and utilizes the basic analysis tools and techniques. Presents the process of developing systems requirements and economic specifications through a case study. Prerequisites: Upper Division standing, Comp 302. Three hrs. lecture per week.

Systems Design (S)

11.0501-420 3 hrs. cr.
Supervised and practical experience in designing computer based systems with emphasis in the areas of basic design tools and objectives, documentation, hardware-software selection, system controls, software design and engineering, data base development, implementation evaluation, and project management and language planning. Open labs as required. Prerequisites: CIS 410. Three hrs. lecture per week.

Operating System Software (F)

11.0401-450 3 hrs. cr.
A working view of hardware, operating software, and firmware; examines cost/performance factors of component modules and systems.

Systems for filing, managing data, and communicating. Theory of Models of Data Base Management Systems; Database normalization, Database techniques and other DBMS topics and Network concepts. Prerequisites: A programming course and CIS 350 or permission of department head. Three hrs. lecture per week.

Compilers (S)

11.0401-460 3 hrs. cr.
Introduction to the building blocks of a compiler; lexical, syntactic, and semantic analysis, definition of the grammar, symbol table manipulation, storage allocation and code generation. Prerequisite: CIS 330. Three hrs. lecture per week.

Seminar in Computer Science (Demand)

11.0305-498 1-3 hrs. cr.
For students vocationally oriented toward automated data processing. Course content will depend on the needs of the attendees. Prerequisites: 60 hrs. college credit with a GPA of 3.0 or permission of the department head.

Independent Study (Demand)

11.0305-499 1-3 hrs. cr.
An independent study course structured by the advisor with approval of the department head. Prerequisite: 60 hrs. credit with a GPA of 3.0. Registration in the course must be approved by the advisor, the department head, and the Dean of the School.

CRIMINAL JUSTICE ADMINISTRATION (CJAd)

Introduction to Security (S)

43.0103-130 3 hrs. cr.
Overview of the security industry and its role in loss prevention. Public vs private security roles for retail business, industrial, and governmental protection. Basic principles such as target hardening, current problems.

Basic Photography (F)

43.0605-210 3 hrs. cr.
Lecture and laboratory procedures for use of cameras, lenses, developing negatives and prints, and enlarging. Prerequisite: Phys 100 or consent. Lab fee.

Physical Security (S)

43.0103-230 3 hrs. cr.
Physical aspects of the security industry and its role in loss prevention for retail business, industrial, and governmental protection. Consideration of barriers and perimeter protection, alarm systems, computer and hazardous materials protection, survey techniques.

Legal and Technical Aspects of Firearms

43.0103-260 3 hrs. cr.
The history and development of firearms. The nomenclature of the most commonly used po-

lice firearms, and the duties and requirements of a rangemaster. The laws concerning firearms acquisitions, ownership, and use. Three hrs. lecture per week. Additional lab time arranged.

Special Topics in Criminal Justice Administration (Demand)

43.0103-298 1-8 hrs. cr.
Course content varies and is designed to meet current needs and interests in the rapidly changing field of Criminal Justice Administration. Precise topics are announced, and prerequisites are stipulated in the course syllabus.

Criminal Investigation II (S)

43.0103-300 3 hrs. cr.
Major case investigative methods, sources of information, development of leads, methods applicable to organized crime and specific offenses. Prerequisite: LE 200.

Traffic Accident Investigation and Controls (F)

43.0103-310 3 hrs. cr.
Theory and techniques for investigating and reducing occurrence of motor vehicle accidents, collection and evaluation of physical evidence reporting. Prerequisite: Three hrs. college level mathematics.

Probation and Parole (S)

43.0103-320 2 hrs. cr.
Study of presentence investigation methods, predicting parole behavior, supervisory practices, legal aspects. Prerequisites: LE 100, Soc 110.

Loss Prevention Techniques (F)

43.0103-330 3 hrs. cr.
Security techniques in loss prevention for retail business, industry, governmental protection, hotel and motel, hospital, school, transit systems, and utilities. Prerequisites: CJAd 130, CJAd 230.

Administration of Security Systems (Demand)

43.0103-331 3 hrs. cr.
The security administrator's role in business, industrial, and governmental protection. Organizing, training, managing, and designing security programs. Prerequisite: CJAd 130.

Basic Color Photography (S)

43.0605-340 3 hrs. cr.
Basic color theory concepts used in the production of color transparencies and color prints. Lab fee. Prerequisite: CJAd 210 or permission of instructor.

Homicide Investigation (Demand)

43.0103-400 3 hrs. cr.
Legal and criminalistics concepts and procedures for the medico-legal investigation of death

due to natural, accidental, suicidal, or criminal cause. Prerequisites: Upperclass standing, LE 200, CJAd 300 or permission.

Juvenile Procedures (F)

43.0103-410 3 hrs. cr.
Juvenile and family court procedures and substantive law as it is applied to the youthful offender. Procedures for juvenile officers such as collection of evidence, taking into custody, and development of the case. Prerequisite: LE 210 or consent.

Juvenile Corrections (S)

43.0103-411 3 hrs. cr.
Overview of the design and legal requirements of juvenile correctional institutions including an analysis of the juvenile interstate compact laws and management principles of juvenile correctional institutions. Prerequisites: Soc 312, CJAd 410.

Criminal Evidence (S)

43.0103-450 3 hrs. cr.
Study of the rules of evidence, admissibility, presumptions, inferences, burden of proof, exceptions to the hearsay rule. Prerequisites: LE 210, LE 250.

Internship in Criminal Justice (Arr)

43.0103-490 6 hrs. cr.
Extensive practical experience with an area Criminal Justice Agency, subject to individual committee approval. Not open to those who have taken LE 190. Prerequisites: Junior standing CJAd majors and consent of instructor.

Seminar in Criminal Justice (Demand)

43.0103-498 1-3 hrs. cr.
A survey of current advances in the field. Precise topics to be announced; for upper division majors in CJAd or those who have completed the A.S. degree in law enforcement. Prerequisite: consent of instructor.

Independent Study in Criminal Justice (Arr)

43.0103-499 1-3 hrs. cr.
Individually directed study for advanced majors in area of criminal justice selected with advisor approval. Proposal must be approved by program director and school dean. 3.5 GPA in major area or consent required.

DENTAL ASSISTING (DA)

Dental Science I (F)

17.0101-100 3 hrs. cr.
An introduction to human anatomy and physiology with emphasis on the head and neck region. Includes dental anatomy with a detailed study of cusps, grooves, roots, ridges, and their relationship to occlusion. Three hrs. lecture per week.

Dental Laboratory Procedures I (F)

17.0101-120 3 hrs. cr.
A study and practicum in pouring of plaster and stone casts, the preparation of restorative and impression materials, and the use of dental equipment. Two hrs. lecture, one 2 hr. lab per week.

Dental Orientation (F)

17.0101-130 2 hrs. cr.
Orientation to the dental profession including organizational structure, ethics and legislation, and philosophy of dental prevention. Clinical application of preventive methods is included. Four hrs. lecture per week for 10 weeks.

Dental Operative Procedures (F)

17.0101-140 5 hrs. cr.
The care and manipulation of equipment, instruments, and supplies. Includes the recognition of the armamentarium for various dental procedures. First 10 weeks: three hrs. lecture; 6 hrs. lab per week. Last 6 weeks: three hrs. lecture, three hrs. lab, 16 hrs. extramural clinical training per week.

Dental Science II (S)

17.0101-150 3 hrs. cr.
An introduction to microbiology, pharmacology, pathology, and diet and nutrition related to the science of dentistry. Three hrs. lecture per week. Prerequisite: DA 100 with a minimum grade of C.

Dental Laboratory Procedures II (S)

17.0101-160 3 hrs. cr.
Continuation of Dental Laboratory Procedures I emphasizing prosthetics. Two hrs. lecture, one 3 hr. lab per week. Prerequisite: DA 120 with a minimum grade of C.

Dental Secretarial Procedures (S)

17.0101-170 3 hrs. cr.
General office management, record keeping, appointment scheduling, telephone techniques, collection accounts, and communication. Three hrs. lecture per week.

Dental Specialties (S)

17.0101-180 3 hrs. cr.
Study of eight recognized specialties and the role of the dental assistant in each. Treatment and prevention of dental office emergencies is also covered, and students become certified in CPR. 3 hrs. lecture per week.

Clinical Dental Assisting (S)

17.0101-190 5 hrs. cr.
Sixteen hours clinical lab practice per week in participating clinical facilities. Prerequisite: DA 140 with a minimum grade of C.

DENTAL HYGIENE (DH)

Fundamentals of Dental Hygiene I (F)

17.0101-101 3 hrs. cr.
Introduction to the fundamental theories, principles and procedures necessary to provide dental hygiene services. Theories and principles are applied in a clinical laboratory setting. Two hrs. lecture, four hrs. lab per week.

Fundamentals of Dental Hygiene II (S)

17.0102-102 3 hrs. cr.
A continuation of DH 101 with further enrichment of skills necessary to perform oral health services. Theories and principles are applied in a clinical laboratory setting. Two hrs. lecture, four hrs. lab per week. Prerequisites: DH 101 with a minimum grade of C.

Dental Morphology (F)

17.0102-140 1 hr. cr.
Detailed study of the morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hr. lecture per week.

Oral Histology and Embryology (F)

17.0102-150 3 hrs. cr.
The gross and microscopic development of the teeth, supportive structures of the teeth, and embryology and anatomy of the head and neck region. Two hrs. lecture, three hrs. lab per week.

Dental Radiology (S)

17.0102-160 2 hrs. cr.
Theory and technique of exposing, developing, mounting, and care of dental radiographs. Interpretation of radiograph findings is discussed; principles of radiation safety are emphasized. One hr. lecture, three hrs. lab per week.

Clinical Dental Hygiene I (Summer)

17.0102-190 3 hrs. cr.
Introduction to clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, exposing and processing radiographs, presenting patient education, applying fluoride, charting the oral cavity, etc. Treatment and prevention of dental office emergencies is covered in the lecture session. One hr. lecture, one seminar, and 16 hrs. lab per week. Prerequisite: DH 102 with a minimum grade of C.

Dental Health Education (F)

17.0102-200 3 hrs. cr.
Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations; practical experience in public schools

and community groups; experience in providing dental health education to mentally and physically handicapped and geriatric patients. Discussion of the eight recognized dental specialties including their relationship to preventive dentistry. 3 hrs. lecture per week.

Perio-Pathology (Summer)

17.0102-210 3 hrs. cr.
Lectures and laboratory periods devoted to the study of oral pathological conditions, including etiology, degenerative process, inflammation, and immunity. Etiology, classification, treatment, and prevention of periodontal disease is stressed. Discussion of techniques for local anesthesia and pain control and practical experience in infiltration anesthesia during the laboratory. Six hrs. lecture, two hrs. lab per week.

Dental Materials (S)

17.0102-220 3 hrs. cr.
A study and practicum in working with various restorative and impression materials used in dentistry. Includes pouring of plaster and stone casts. Two hrs. lecture, two hrs. lab per week.

Clinical Dental Hygiene II (F)

17.0102-290 5 hrs. cr.
Continuation of DH 190 with added responsibilities as skills develop. Information on advanced dental hygiene techniques is presented in the lecture portion of the course. Multicultural experience is gained through rotations in extended campus facilities. One hr. lecture, 16 hrs. lab per week. Prerequisites: DH 190 with a minimum grade of C.

Nutrition (S)

17.0102-310 2 hrs. cr.
Nutrition and diet as related to dental health; biochemistry of digestion and the utilization of nutrients. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hrs. lecture per week.

Pharmacology (F)

17.0102-320 2 hrs. cr.
Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action, and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hrs. lecture per week.

Ethics and Community Dentistry (S)

17.0102-330 3 hrs. cr.
Professional ethics and commitment, professional organizations, state practice acts, and practical consideration of methods and problems associated with operating and maintaining a dental practice. Definition and identification

of the scope of public and dental public health. Consideration of philosophy, health legislation, federal, state, and local health programs, needs and demands for dental care, and mechanisms for financing dental care. Three hrs. lecture per week. Prerequisites: DH 200 with a minimum grade of C.

Clinical Dental Hygiene III (S)

17.0102-390 5 hrs. cr.
Continuation of DH 290. Clinical experience in advanced clinical procedures and dental assisting procedures including experience in extended campus facilities. Principles of four-handed dentistry are presented in the lecture portion of the course. One hr. lecture, 16 hrs. lab per week. Prerequisite: DH 290 with a minimum grade of C.

DRAFTING AND DESIGN (Draf)

Introductory Drafting (F,S)

48.0105-110 3 hrs. cr.
An introduction to drafting, including the use of instruments, geometric construction, lettering, orthographic projection, dimensioning, sections and conventions, auxiliaries, and pictorial drawings. One hr. lecture and four hrs. lab per week. Corequisite Draf 115.

Intro to Computer Aided Drafting (F,S)

48.0105-115 1 hrs. cr.
Introduction to the field of computer aided drafting and the operation of a computer drafting system. Should be taken concurrently with Drafting 110 by students who have had no college drafting courses. Individuals with a background in drafting may take the course for personal or professional improvement, with the consent of the instructor. Lecture one hr. per week; open labs as required.

Descriptive Geometry (S)

48.0105-120 3 hrs. cr.
Practical applications of advanced projection techniques to problems in civil, structural, mechanical and architectural engineering. One hr. lecture and four hrs. lab per week. Prerequisite: Draf 110.

Machine Drafting (S)

48.0105-130 3 hrs. cr.
Detail and assembly drawings of machines, and machine elements. Survey of the use of machine tools, processes, and materials in the design and fabrication of machine parts. One hr. lecture and four hrs. lab per week. Prerequisite: Draf 110.

Tool Design (Demand)

48.0105-202 3 hrs. cr.
Principles of tool design with emphasis on the design and graphical representation of common jigs and fixtures used in the manufactur-

ing industry. One hr. lecture and four hrs. lab per week. Prerequisites: Draf 130.

Mechanical Design (F)

48.0105-204 3 hrs. cr.
Principles of machine design with emphasis on the proper selection, function, and graphical representation of common components. One hr. lecture and four hrs. lab per week. Prerequisites: Draf 120 & 130.

Technical Illustration (S)

48.0105-210 3 hrs. cr.
Pictorial drawing with an emphasis on mechanical and architectural applications. Preparation of mechanical illustration and exploded view. Architectural application of pictorial drawings in the form of perspectives. Use of media such as drafting film, ink, illustration board, lettering systems, and air brushes. One hr. lecture and four hrs. lab per week. Prerequisite: Draf 110 or consent of the instructor.

Architectural Drafting (S)

48.0105-220 3 hrs. cr.
Instruction in the principles of design, drawing sets of working drawings, building details, and use of modern construction materials for residential building. One hr. lecture and four hrs. lab per week. Prerequisite: Draf 110 or consent of instructor.

Survey & Mapping (F)

15.0203-230 3 hrs. cr.
Theory, principles, and practices of surveying and mapping as applied to construction, site plans, and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations, and preliminary surveys. One hr. lecture and four hrs. lab per week. Prerequisite: Draf 110 or consent of the instructor.

Computer Aided Drafting (F,S)

48.0105-260 3 hrs. cr.
Preparation of drawings in mechanical, civil, architectural, structural, and electrical drafting using a computer aided drafting system. Assistance for the advanced student in developing skill and knowledge in the use of a CAD System to prepare drawings in one or more drafting fields. Three 1 hr. lectures per week; open labs as required. Prerequisites: Draf 110, Draf 115, and one or more drafting specialty courses from the following: Draf 130, Draf 202, Draf 220, or Draf 230. A student with industrial drafting experience may be admitted with the consent of the instructor if Draf 115 has been completed.

Special Topics Drafting & Design (Demand)

48.0105-298 1-8 hrs. cr.
A topic or topics not normally included in another course. Prerequisites to be determined

by the department and stipulated in a course syllabus.

Seminar in Drafting & Design (Demand)

48.0105-498 1-3 hrs. cr.
Specialized knowledge and skills related to new developments in drafting and design. Topics will vary by the semester and situation. Prerequisite: An Associate Degree in Drafting & Design or senior standing in Management-Technology or Industrial Arts.

Independent Study in Drafting & Design (Demand)

48.0105-499 1-3 hrs. cr.
Individually directed reading, research, and discussions in selected areas of drafting for advanced majors. Scope, depth, area of concentration, and credit hours will be arranged when registering for the course. Offered by arrangement. Prerequisite: 20 hrs. of drafting with 3.0 GPA and permission of instructor.

ENVIRONMENTAL HEALTH TECHNOLOGY (EHT)

Man and Environment (F,S)

26.0101-110 4 hrs. cr.
A survey of environmental aspects of biology including pollution, land use, population, energy, and organismic responses to these problems. Cellular, systemic, and genetic mechanisms. Three lectures and one 2 hr. lab per week. Fulfills general education requirement for biology.

Selected Topics in Environmental Health

18.0799-298 1-8 hrs. cr.
Special topics in Environmental Health not normally included in another course. Prerequisite: EH 110 or Bio 101, Bio 112, and Bio 122.

Earth Environments (Geol 300)

40.0601-300 4 hrs. cr.
Describes aspects of the solid earth, the liquid environments of earth, and our atmosphere. Interactions of these and their relationships to human society. Prerequisite: Phys 100.

Environmental Biology (F)

26.0603-312 4 hrs. cr.
Environmental factors and their interactions with living things. Emphasis on human ecology and wise natural resource utilization. Three lectures and one 2 hr. lab per week. Prerequisite: Phys 100, Bio 101, Math 110, or permission of the instructor.

Environmental Health (S)

26.0704-370 4 hrs. cr.
Contemporary environmental health problems and public protection measures including public health disease prevention, vector control, etc. Three lectures and one 2 hr. lab per week.

Prerequisite: Bio 211 or 231, Junior standing in science or permission of instructor.

Internship in Environmental Health (F,S)

18.0799-450 1-8 hrs. cr.
Experience in actual observation and work at health facilities, health regulation agencies, and/or industrial plants where environmental health is a viable concern. Periodic meetings between the Missouri Southern coordinator, the cooperating institution and the student will be required. The student should not be employed in any job that will prevent full-time, maximum concentration on the academic internship. Prerequisite: Senior standing in the environmental health or biology curricula.

Seminar in Environmental Health

18.0799-498 1-3 hrs. cr.
For upper division environmental health and biology majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of environmental health not covered in other courses. Prerequisite: Junior standing; 20 hrs. in environmental health and/or biology and a minimum GPA of 2.5 in environmental health and/or biology, or permission of the instructor.

Problems in Environmental Health

18.0799-499 1-3 hrs. cr.
Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of environmental health, with adequate preparation and the consent of the supervising instructor, coordinator, department head and school dean. Prerequisite: A minimum GPA of 3.0 in 20 hrs. of environmental health and/or biology.

INDUSTRIAL ARTS (IA)

Woodworking and Wood Construction (F)

13.1309-300 4 hrs. cr.
Study of basic woodworking tools and machines. Special attention to the design, construction, and finishing of wood projects. One hr. lecture, six hrs. lab per week.

Wood Tech, Processes and Products (S)

13.1309-301 4 hrs. cr.
Wood technology—including manufacturing of lumber, seasoning, grading, buying, properties, structure, and characteristics of wood. Special processes and techniques used in the woodworking industry such as wood lamination, P.E.G. diffusion, wood flour, particle moulding, wood plastic composition (WPC), ammonia bending, mass production, and jigs and fixtures will be introduced. Students will design and finish projects involving the use of special processes, techniques, jigs, and fixtures. One hr. lecture, six hrs. lab per week.

Introduction to Plastics (S)

13.1309-310 3 hrs. cr.
A general course designed to develop a knowledge of the plastics industry with an emphasis on current industrial materials and processing. One hr. lecture, four hrs. lab per week. Prerequisite: Mach 100.

Industrial Electricity (F)

13.1309-321 3 hrs. cr.
The principles of electricity as related to industrial applications. Emphasis on safety in electricity, electron theory, electrical quantities, circuits, cells, batteries, magnetism, transformers, capacitance, resistance, generators, and motors as applied to residential and commercial wiring. Two hrs. lecture, two hrs. lab per week.

Electricity-Electronics (S)

13.1309-322 3 hrs. cr.
Basic electronics DC and AC circuits, and circuit analysis. Emphasis on the use of resistors, capacitors, transistors, and power sources in the control of electronic circuits. Two hrs. lecture, two hrs. lab per week. Prerequisite: IA 321.

Shop Organization and Management (F)

13.1309-355 3 hrs. cr.
Introduction to the organization and management of the Industrial Arts shop. Topics include the management of the layout, equipment, inventories, budgeting, and purchasing procedures as related to the school shop. Three hrs. lecture per week.

Power Technology (F)

13.1309-340 3 hrs. cr.
A survey of various sources and applications of power and energy. Topics include the internal combustion engine, solar, thermal, nuclear, electrical, and other potential sources of power. Laboratory sessions on the application of basic concepts through demonstrations and construction of projects. Two hrs. lecture, two hrs. lab per week.

Selected Topics in Ind Arts (Demand)

13.1309-298 1-8 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites to be determined by the Department of Industrial Arts and stipulated in a course syllabus.

Seminar in Industrial Arts (Demand)

13.1309-498 1-3 hrs. cr.
A seminar for upper division Industrial Arts majors. Topics will be announced each time the course is offered. Prerequisite: Senior standing or permission of the instructor.

Independent Study Ind Arts (Demand)

13.1309-499 1-3 hrs. cr.
Individually directed reading, research, and projects in selected areas of Industrial Arts for

advanced majors. Scope, depth, area of concentration, and credit will be arranged when registering for the course. Offered by arrangement. Prerequisite: Advanced standing in Industrial Arts with minimum GPA of 3.0 and permission of instructor.

LAW ENFORCEMENT (LE)

Introduction to Law Enforcement (F,S)

43.0107-100 3 hrs. cr.
Municipal, county, state, and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of law enforcement.

Police Organization and Administration (F)

43.0107-110 2 hrs. cr.
Management operations, communications, budgeting, recruiting, training, and public relations as they pertain to the local and state law enforcement agencies.

Interview and Report Writing (S)

43.0107-150 2 hrs. cr.
The techniques of interviewing and writing the report. Legal considerations for criminal interrogations. Use of basic report forms and records systems.

Supervised Police Work (Summer)

43.0107-190 6 hrs. cr.
The student spends a specific amount of time in the local police department, the local sheriff's department, and with other area agencies learning the standard line activities. The purpose is to introduce the student to the actual duties of law enforcement officers. Prerequisites: LE 100, LE 110, LE 150.

Criminal Investigation I (F)

43.0107-200 3 hrs. cr.
Fundamentals of criminal investigation techniques including crime scene procedures, burglary, and death investigation. Includes collection, preservation, identification of evidence, and overview of crime lab procedures.

Criminal Law (S)

43.0107-250 3 hrs. cr.
Criminal law purposes and functions; laws concerning arrest, search, and seizure. Rights and duties of officers and citizens in relation to local, state, and federal laws. The development, application, and enforcement of laws.

Police Supervision and Management

43.0107-290 3 hrs. cr.
Principles of personnel management as applied to law enforcement agencies; evaluation, promotion, discipline, training, employee welfare, and problem-solving leadership.

Special Topics in Law Enforcement (Demand)

43.0107-298 1-8 hrs. cr.
Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites to be stipulated in the course syllabus.

MACHINE TECHNOLOGY (Mach)

Intro to Machine Tool Processes (F)

48.0503-100 4 hrs. cr.
The theory and safe operation of basic machine tools. The fundamental practices include safety, basic mathematics, blue print reading, benchmark, precision measurement, metal sawing, drills and drilling, pedestal bench grinding, engine lathes, shapers, mills and panagraphs. Two hrs. lecture, six hrs. lab per week.

Intermediate Machine Tool Processes (S)

48.0503-105 4 hrs. cr.
An introduction to the operation of surface, cylindrical, tool and cutter grinders. Principles of inspection and gaging, applied trigonometry, tooling geometry and advanced lathe and milling practices. Two hrs. lecture, six hrs. lab per week. Prerequisites: Mach 100, Draf 110, Math 130, or consent of the instructor.

Inspection and Gaging (S)

48.0503-160 2 hrs. cr.
Inspection, gaging, and precision measurement procedures utilizing mechanical electronic and optical measuring equipment and related math. One 1 hr. lecture, one 2 hr. lab per week. Prerequisites: Mach 100, Draf 110, Math 130 and Math 112, or consent of instructor.

Advanced Machine Tool Processes (S)

48.0503-200 4 hrs. cr.
An introduction to the design and fabrication of custom machine tools, molds, jigs, fixtures and dies. Subjects include proto-type design, die construction, electrical discharge machining, gears and gearing, special cutting tools, and precision tool-making. The principles of metallurgy will be presented within each subject area. Two hrs. lecture, six hrs. lab per week. Prerequisites: Mach 105, Draf 130, Math 130, and math 112, or consent of instructor.

Numerical Control and Computer Numerical Control (S)

48.0503-250 4 hrs. cr.
Introduction to the history and fundamentals of numerical control manual and computer numerical control machining. Topics include coordinate systems, tape coding, tool geometry and offsets, feeds and speeds with related blueprint reading and mathematics applied to numerical control programming. Students will write and edit programs on microcomputers and machine parts on computer controlled ma-

chines and lathes. Two hrs. lecture, four hrs. lab per week. Prerequisites: Mach 200, Math 130, and Math 112, or consent of instructor.

Fundamentals of Metallurgy (F)

48.0503-260 3 hrs. cr.
Introduction to physical metallurgy. Theory and application of principles for identifying, producing, conditioning and testing of ferrous and nonferrous metals. Topics include heat treating, machining, welding, casting, and forming of metals with related testing and metallographic examination. One 1 hr. lecture, two 2 hr. labs per week.

Production Planning and Control (S)

48.0503-290 3 hrs. cr.
A survey of the essential steps for effective planning and control of manufacturing production. Emphasis on process identification, process sheets and scheduling with related costs. Activities that influence the production planning and control will be introduced including quality control, safety, plant layout, inventory control, material handling and equipment. Three hrs. lecture per week. Prerequisites: Mach 200, Comp 115 or consent of the instructor.

Selected Topics in Mach Tech (Demand)

48.0503-298 1-8 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites to be specified by the department in a course syllabus.

Seminar in Machine Technology (Demand)

48.0503-498 1-3 hrs. cr.
Covers specialized knowledge and skills related to new developments in machine technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology or an Associate Degree in Machine Technology.

Independent Study in Mach Tech (Demand)

48.0503-499 1-3 hrs. cr.
Individually directed reading, research, and discussions in selected areas of Machine Technology, for advanced majors. Scope, depth, and area of concentration and credit will be arranged when registering for the course. Offered by arrangement. Prerequisite: Completion of required machine technology courses with minimum 3.0 GPA and permission of the instructor.

MEDICAL TECHNOLOGY (MT)

Introduction to Medical Technology (F,S)

18.0901-200 1 hr. cr.
A practical experience to introduce prospective Medical Technology students to the following areas of a hospital laboratory: Hematology, Coagulation, Urinalysis, Blood Bank, Microbiology, Serology, Radioimmunoassay, and Chemistry.

Clinical Chemistry (F)

18.0901-401 10 hrs. cr.
Analytical and theoretical aspects of the clinical biochemistry of body fluid constitutes utilizing both manual and instrumental techniques including automation and special procedures. Five hrs. lecture and 20 hrs. clinic/lab per week.

Clinical Microscopy (S)

18.0901-402 1 hr. cr.
Principles and techniques of the physical, chemical and microscopic examination of urine and other excreta as related to disease processes. One hr. lecture, clinic by arrangement.

Hematology (F)

18.0901-403 6 hrs. cr.
The cellular elements of blood and bone marrow; theory of cell production, release, and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation, and hemorrhagic disorders. Three hrs. lecture, 12 hrs. clinic/lab per week.

Serology-Immunology (S)

18.0901-404 3 hrs. cr.
The science of immunity including antibody development, principles of antigen-antibody interactions, and techniques of serological testing for various disease states. Three hrs. lecture, 12 hrs. clinic/lab per week.

Clinical Microbiology (S)

18.0901-405 7 hrs. cr.
Sterile technique, methods of handling and inoculating specimens containing pathogenic microorganisms, isolation identification of pathogenic microorganisms, laboratory tests in chemotherapy, and diagnostic bacteriology, mycology, and parasitology. Four hrs. lecture, 12 hrs. clinic/lab per week.

Blood Bank-Immunohematology (S)

18.0901-406 3 hrs. cr.
Blood group systems and the immune response, methods of crossmatching, antibody screening, and phenotyping. Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hr. lecture, eight hrs. clinic/lab per week.

Special Topics in Medical Technology (S)

18.0901-407 2 hrs. cr.
Lecture and/or clinical practice in the areas of in-service education, management and supervision, research and development, principles and techniques of the instructional process. Lecture and labs to be arranged.

MILITARY SCIENCE (MS)

Military Adventure Training (F)

28.0301-111 2 hrs. cr.
Basic land navigation and map reading skills, rifle marksmanship, rappelling, and a brief history of Army ROTC. One hr. lecture and two hrs. lab per week.

Military Team Skills (S)

28.0301-112 2 hrs. cr.
Basic survival skills in various geographic regions and climates. Basic first aid in survival situations. Rifle marksmanship and an overview of the branches of the Army. One hr. lecture and two hrs. lab per week.

Individual Military Skills I (F)

28.0301-121 2 hrs. cr.
Basic military management techniques and leadership styles, military career opportunities, and a review of ROTC programs and their application to individual career goals both military and civilian. Two hrs. lecture, one 1 hr. lab per week. Lab will be practical application of group leadership techniques (drill and ceremonies, range operations, rappelling, oral presentations).

Individual Military Skills II (S)

28.0301-122 2 hrs. cr.
Comprehensive instruction on a variety of "soldier skills" which the student should know prior to enrolling in Advanced ROTC courses. Field training exercises, physical training programs, and additional leadership experiences. One hr. lecture and two hrs. lab per week.

Basic ROTC Summer Practicum (Summer)

28.0301-190 2 or 4 hrs. cr.
Designed for freshmen and sophomores desiring to enroll for Advanced ROTC. A varied number of credits are available depending on the needs of the students. The course will cover mountaineering, map reading, land navigation, survival, basic physical conditioning, basic drill, organization of the Army, marksmanship, and other basic military skills.

Seminar in Military Science (ROTC Basic Camp) (Summer)

28.0301-298 2-8 hrs. cr.
An in-depth study of the Military Science courses normally taught on college campus during the freshman and sophomore years, including: tactics, marksmanship, communication, physical conditioning, and practical leadership experience. The six-week course is taught at Fort Know, KY, with transportation and room and board plus a salary provided by the Army.

Leadership and Management I (F)

28.0301-301 3 hrs. cr.
Leadership, its principles, responsibilities, and techniques. Functions of the leader, leadership

including management of military assets, introduction to leadership theory and practice, and military laws. Included is a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

Fundamentals and Dynamics of Military Team I (S)

28.0301-302 3 hrs. cr.
Branches of the Army, small unit tactics, communications, leadership theory and practice. Included are a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

United States Military Experience 1775 to Present (S) (SEE Hist 400)

28.0301-400 3 hrs. cr.
A broad review of military history as concerned with the role of force on land or sea or air against foreign governments and domestic dissidents. Emphasizes military policy, organization, and technology, relating them to political, social, and economic developments. Covers the major American wars and other activities of the armed forces but only in their larger aspects, selectively and for the purpose of illustrating the broad themes in the military experience. Three hrs. lecture per week.

Fundamentals and Dynamics of Military Team II (F)

28.0301-411 3 hrs. cr.
Command and staff concept and evolution, organization for operations, the composition and mission of various military teams, broad aspects of military logistics, leadership theory and practice. Also included is a program of directed readings in Military History, a physical training program, and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

Leadership and Management II (S)

28.0301-412 3 hrs. cr.
Military law, obligations and responsibilities of an officer, military personnel, logistics and administrative management, world change and military implications, leadership theory and practice. Also included are a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

NURSING - ASSOCIATE DEGREE (NUR)

Introduction to Nursing Process (F)

18.1101-100 6 hrs. cr.
An introduction to nursing, roles of the Associate Degree Nurse, and application of the nursing process with emphasis on promotion of health. The course is organized around mobility, body processes, body defenses, safety and security. Emphasis on the uniqueness of each individual through the study of bio-psychosocial

development of the individual and family, cultural diversity, and the communication process. An introduction to nursing history, ethical and legal aspects, pharmacology, and nutrition. Students are expected to develop proficiency in the basic nursing skills.

Licensed practical nurses admitted to the program complete the theory portion of the course. Following the demonstration of clinical proficiency in basic skills, LPN's will be exempt from part of the clinical laboratory experience. Clinical experience sufficient to develop skill in the use of the nursing process will be assigned. Four hrs. lecture, eight hrs. classroom and clinical lab including pre- and post-conferences.

Nursing Process with the Developing Family (S)

18.1101-110 9 hrs. cr.
Individual and family development from conception through adolescence. Following the initial emphasis on health, the nursing process is applied to complications of child-bearing and common illnesses of childhood.

The course organization is similar to Nursing 100. The student is expected to organize care of selected patients. Communication skills are applied in assisting and teaching the family. Related drug, nutritional, and rehabilitation interventions are included. Historical highlights, legislation, trends, and cultural implications are presented. Five hrs. lecture, 12 hrs. clinical lab including pre- and post-conferences. Prerequisite: Nursing 100 with minimum grade of C.

Nursing Process in Psychiatric-Mental Health Nursing (Summer)

18.1101-130 4 hrs. cr.
The promotion of mental health as well as application of the nursing process in the care of the client in psychiatric-mental health settings. Course content places increased emphasis on communication. Use of therapeutic communication and the nurse-patient relationship are emphasized. Theories of personality development, developmental crisis, and crisis intervention methods for the individual and family are introduced. Pharmacology, legal and ethical issues, and related diet therapy are integrated. Four hrs. lecture, 12 hrs. clinical lab, including pre- and post-conference. Prerequisite: Nursing 110 with minimum grade of C. Summer course only.

Nursing Process with Adults I (F)

18.1101-220 9 hrs. cr.
Applies the nursing process to the adult client and family who need assistance to achieve high-level wellness. Developmental aspects of the middle years are presented. In the clinical setting, opportunity is given to organize and provide care to more than one patient utilizing

roles of the A.D. nurse. Communication and health teaching with the adult are emphasized. Theory content is presented as: interference with body processes, altered body defenses, altered mobility, and jeopardized safety. Legal, cultural, pharmacological, nutritional, and rehabilitational aspects are an integral part of the course. Five hrs. lecture, 12 hrs. clinical lab including pre- and post-conferences. Prerequisite: Nursing 130 with minimum grade of C.

Nursing Process with Adults II (S)

18.1101-240 9 hrs. cr.
A continuation of Nursing 220 with application of the nursing process in the care of patients in more acute care areas. The student assumes a more active role as a member of the health team by increasing utilization of organizational and managerial skills. Developmental aspects of aging are presented. The content is organized as identified in Nursing 220. Four hrs. lecture, 15 hrs. clinical lab including pre- and post-conferences. Prerequisite: Nursing 220 with minimum grade of C.

Selected Topics in Nursing (Demand)

18.1101-298 1-8 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites to be determined by the Department of Nursing and stipulated in a syllabus of the course.

NURSING - BACCALAUREATE DEGREE (Nur)

Process of Professional Nursing (F)

18.1120-300 3 hrs. cr.
Study will focus on the knowledge and skills needed to assume the role of the professional nurse. Core content includes theory on the nursing process, systems theory, adaptation, and legal and ethical issues. The role of the nurse as a change agent, as a leader, and as an accountable professional are explored. The course is structured to provide an opportunity for the socialization of the learner in transition from the secondary level to the primary level of nursing practice. Prerequisite: RN status and approval of the department. Co-requisites: Nursing 310 and Bio 308. Three hrs. lecture.

Nursing Management and Group Dynamics (F)

18.1120-310 3 hrs. cr.
Relates organizational and administrative theories to the delivery of health care services with emphasis on management principles and processes. Communication skills, group participation, and leadership abilities will be analyzed. The learner will integrate didactic content with group experiences to further develop qualities of facilitating communication, problem-solving, and leadership. These activities will prepare the nurse for intervention with clients and families; to serve as a client advocate;

and to collaborate with professionals in other health related disciplines. Prerequisite: RN status and approval of the department. Co-requisites: Nursing 300 and Bio 308. Three hrs. lecture.

Advanced Health Assessment (S)

18.1120-330 6 hrs. cr.
Builds upon knowledge obtained in Pathophysiology, Process of Professional Nursing, and Nursing Management and Group Dynamics. Physical assessment is utilized as a tool in the data collection phase of the nursing process. Clinical experience is designed to allow the learner to refine assessment skills. The learner will be guided in using problem solving skills in complex care settings. Prerequisites: Nursing 300, 310, Bio 308. Three hrs. lecture, nine hrs. clinical lab including pre- and post-conferences.

Nursing Process in Community Health (F)

18.1120-400 6 hrs. cr.
Concepts and methods for assessment of community strengths and health needs. Through an interactive process with community residents and health care providers, recommendations are established for improved community health. Course requirements include classroom seminar and community clinical laboratory experiences. Prerequisites: Nursing 300, 310, and 330. Three hrs. lecture, nine hrs. clinical lab, including conferences.

Gerontological Nursing (S)

18.1120-410 3 hrs. cr.
Focuses on the health care needs of the older adult. The nursing process will be utilized as a framework of study for preparation of the professional nurse to assume a leadership role in the care of the elderly. Prerequisites: Nursing 330 and Bio 308. Exceptions may be made for registered nurses employed in the field of gerontology. Three hrs. lecture.

Introduction to Nursing Research (S)

18.1120-420 6 hrs. cr.
Provides guided investigation of research design, methodology, sampling, conclusions, and clinical application of findings. Critical evaluation of research studies is emphasized. Legal and ethical issues relative to the research process are studied. Nursing Research builds upon the knowledge and skills acquired in the statistics course. A research proposal for a selected problem is developed by the learner and implemented in the clinical area. Prerequisites: Statistics; Nursing 300, 330, 400. Six credit hrs., three hrs. lecture, nine hrs. clinical lab including conferences.

Independent Study (Demand)

18.1120-499 1-3 hrs. cr.
An independent study course structured by the advisor with approval of department head. Prerequisite: Advanced standing in the major field. Registration in the course must be approved by advisor and Department Head.

PARAMEDIC PROGRAM (EMT-P)

EMT-P (Paramedic) (Demand)

17.9999-295 12 hrs. cr.
Classroom instruction supplemented by clinical observation and experience. The classroom phase consists of three 3 hr. sessions per week. The clinical training is arranged through an area hospital. Applicants must be at least 18 years of age, hold a high school diploma or equivalent, and possess a current state ambulance license. A minimum of one year's experience in the emergency medical field is preferred. Special book and equipment fees are assessed for this course. (For additional information, contact the Continuing Education Office.)

RADIOLOGIC TECHNOLOGY (Rad)

Introduction to Radiology

17.0209-101 3 hrs. cr.
An introduction to the radiology department, including basic procedures and equipment. Includes organization, function, and supervision of a Radiology Department with a history of X-ray, ethical principles, and legal aspects of technology and elementary radiation protection. Two hrs. lecture and two hrs. lab per week. Prerequisite or co-requisite Bio 221.

Medical Terminology

17.0209-111 3 hrs. cr.
Provides a background in the language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes, and suffixes. Every attempt is made to relate medical roots to everyday English words. A survey of medical and surgical diseases is included. Three hrs. lecture per week.

Patient Care and Special Procedures in Radiology

17.0209-121 3 hrs. cr.
Routine and special care of the patient. Includes sterile techniques, preparation of contrast media, special attention to the visualization of the digestive, urinary, and reproductive organs. Three hrs. lecture per week.

Principles of Radiographic Exposure

17.0209-132 3 hrs. cr.
The fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on radiation protection and dark room chemistry and techniques. Three hrs. lecture per week.

Radiographic Positioning I

17.0209-142 3 hrs. cr.
Basic radiographic positioning including both standard and specialized position of the extremities and spine. Film critique and radiation protection. Two hrs. lecture, three hrs. lab and 12 hrs. clinic per week.

Film Critique

17.0209-160 2 hrs. cr.
Develops a student's ability to evaluate X-ray films as to technical quality and diagnostic interpretation. Course also includes an introduction to quality assurance. One hr. lecture and two hrs. lab per week.

Radiologic Physics

17.0209-170 3 hrs. cr.
The physics of radiology. The physical principles of X-ray production, including theory in electricity, rectification, circuitry, and basic equipment maintenance. Three hrs. lecture per week.

Practicum in Radiology I

17.0209-180 4 hrs. cr.
Intensified clinical training in the areas of urology, surgery, special procedure, fluoroscopy, and general radiography. Course meets for 12 weeks summer session. 35 hrs. clinic per week.

Radiographic Positioning II

17.0209-241 3 hrs. cr.
An in-depth study of routine and special views of the skull and facial bones. Film special views of the skull and facial bones. Film critique, radiation protection, and skull anatomy review. Two hrs. lecture, three hrs. lab, and 20 hrs. clinic per week.

Radiographic Positioning III

17.0209-252 3 hrs. cr.
Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Includes film critique, radiation protection, and review of vascular anatomy. Three hrs. lecture and 20 hrs. clinic per week.

Practicum in Radiology II

17.0209-282 2 hrs. cr.
Advanced clinical training. Includes an introduction to the responsibility of patient flow control. 20 hrs. clinic per week.

Practicum in Radiology III

17.0209-290 4 hrs. cr.
Professional clinical training in which the student controls the patient flow. Special attention to final training in special procedures and surgery. Includes radiation therapy. Course meets 12 weeks summer session. 35 hrs. clinic per week.

Advanced Radiology

17.0209-299 3 hrs. cr.
A comprehensive review of the field of radiology including innovations, trends, and anticipated advancements in the field. Three hrs. lecture per week.

ADMINISTRATION & FACULTY

(as of December, 1984)

ADMINISTRATIVE STAFF

Julio S. Leon	President
Floyd E. Belk	Vice President for Academic Affairs
Paul R. Shipman	Vice President for Business Affairs
Glenn D. Dolence	Dean of Student Services
Ray A. Malzahn	Dean, School of Arts and Sciences
John W. Tiede	Dean, School of Business Administration
Edward P. Merryman	Dean, School of Education and Psychology
James K. Maupin	Dean, School of Technology
Robert H. Nickolaisen	Assistant Dean, School of Technology
Vonnie Prentice	Head, Department of Biology
Richard W. Massa	Head, Department of Communications
James V. Sandrin	Head, Department of Education
Joseph P. Lambert	Head, Department of English
Pete Havely	Head, Department of Fine Arts
J. Larry Martin	Head, Department of Mathematics
Vernon D. Baiamonte	Head, Department of Physical Sciences
Judith L. Conboy	Head, Department of Social Sciences
Max D. Oldham	Head, Department of Physical Education
James T. Volskay	Head, Department of Psychology
Mary Lou Dove	Interim Head Librarian
Robert O. Highland	Director of Instructional Media
Charles E. Nodler	Archivist
Carolyn J. Trout	Circulation Librarian
Elmer E. Rodgers	Periodical Librarian
Emily Epstein	Processing Librarian
Arlene E. Moore	Reference Librarian
Kreta C. Gladden	Director of Alumni Affairs
David C. Bingman	Director of Continuing Education, Conferences and Workshops
Gwen E. Hunt	Director of Public Information
George H. Volmert	Registrar
W. Sue Billingsly	Director of Missouri Southern Foundation
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Larry K. Karst	Counselor
James L. Frazier	Director of Men's Athletics
Lorine V. Miner	Director of Placement
Sallie L. Beard	Director of Women's Athletics
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Myrna L. Dolence	Learning Center Coordinator
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Deborah D. Dinitto	Financial Aid Counselor
Teresa A. Finder	Admissions Counselor
Joe D. Vermillion	Counselor
C. Elaine Freeman	Counselor
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Sidney S. Shouse	Controller
Ron Foster	Director of Office Services
Wayne Johnston	Director of Safety & Security
Douglas Coen	Personnel Records
David Throop	Purchasing Agent
Howard Dugan	Director of Physical Plant

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(Date indicates first year of service.)

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FACULTY

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Professor
English 1971
A.B., St. Francis College, (Indiana)
M.A., University of Dayton
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Professor
Mathematics—Head, Mathematics Dept. 1965
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M.S., University of Tulsa
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Associate Professor
Communications—Head, Communications Dept. 1972
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M.A., University of Missouri, Columbia
Graduate Study, University of Arkansas

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Associate Professor
Dean, School of Technology 1955
B.S., Central Missouri State University
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Computer Sciences 1981
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Business 1984
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A.B., University of Omaha
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General Business	105	Mathematics	105
Degree Requirements	105	Degree Requirements	105
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- ☐ Incoming freshman
☐ Already enrolled at MSSC
☐ Transfer student

Honors Program Application

Name _____ Social Security No. _____
last first initial
 Address _____ Telephone _____
street city state

ACT composite score _____

Have you been admitted to MSSC? Yes _____ No _____

Have you applied for financial aid? Yes _____ No _____

High School _____ GPA _____ Year graduated _____

Incoming Freshman

Intended Major _____

Already enrolled or transfer student

College or university attended _____

Hours completed _____ GPA _____

Quarter system _____

Semester system _____

Major _____

signature _____ date _____

For office use only:

Transcript _____

ACT scores _____

Letters of recommendation:

High school principal _____ 1

High school teacher _____ 2

Essay _____

Interview _____

Action taken: _____

For further information contact:

Honors Program Director

Missouri Southern State College

Joplin, MO 64801-1595

In Missouri, call toll-free 1-800-492-4811

Local telephone: (417) 624-8100

Housing Information

On campus residence requirements

All freshmen and sophomores are required to live in the Missouri Southern State College Residence Halls to the extent space is available, unless they are married, live with their parents, live with a relative, or are excused by the Dean of Students.

General information

Missouri Southern houses over 525 students on campus. The two main residence halls are Webster Hall (200 men, 25 women) and South Hall (115 women). In addition, there are two women's annex halls with 32 women living in single room occupancy. Apartment-style units house an additional 200 students.

The rooms on campus are furnished with twin size beds, bed pads, study carrels, desks, chairs, lamps, wastebaskets, draperies, and night stands. Students are required to bring sheets, pillow, blankets, and all personal belongings. The apartment units are also furnished with sofa, chair, lamps, and coffee table.

All residence hall facilities are air-conditioned. Cable TV rooms, study lounges, recreational areas, IBM Personal Computers, vending machines, and laundry facilities are also included. The residence halls are staffed by two full time professional Head Residents who are assisted by a paraprofessional staff of 17 Staff Assistants.

Resident students are also entitled to Food Service. Twenty meals are served each week in the Student Center Cafeteria. Individual meals feature salad bar and unlimited servings, including entrees.

For additional information

Call: Housing Office
Missouri Southern State College
(417) 624-8100, ext. 220
Missouri Residents call our toll free
number 1-800-492-4811

or write: Housing Office
Missouri Southern State College
Joplin, MO 64801-1595

Request for application

Complete and return the form below to receive an Application for Housing.

Name _____ Date _____
(Last) (First) (Middle)
Address _____
(Street) (City) (State) (Zip Code)
Telephone _____

Detach and return this form to: Housing Office
Missouri Southern State College
Joplin, MO 64801-1595

Application for Admission

Scholarship Application

Note: By filing this form along with the Missouri Southern State College Financial Aid Application, you will be considered for any one of 200 Patron Scholarships available through the Missouri Southern State College Scholarship Program.

How to apply:

1. Must apply or have applied for admission.
2. Complete application and a Missouri Southern State College Financial Aid Application.
3. Transfer students must have transcripts on file with Registrar's Office. (Transfer students may be eligible for Jr. College Transfer Scholarships. Please contact the Financial Aids Office at Missouri Southern State College.)
4. Type or print application.

Name _____
First Middle or Initial Last Maiden Social Security No. _____

Address _____
Street City State Zip County

1) Male _____ 2) Female _____ 1) Married _____ 2) Single _____

High School Attended _____ City _____ State _____ Date of Graduation _____

1) Freshman _____ 2) Sophomore _____ 3) Junior _____ 4) Senior _____
1-29 hrs. 30-59 hrs. 60-89 hrs. 90 plus hrs.

Educational Major _____

Check criteria which apply to you:

1. ☐ Career choice is manufacturing
2. ☐ Career choice is mental health
3. ☐ Society of Manufacturing Engineer's (SME)
4. ☐ Industrial Technology Club
5. ☐ Student Nurse's Association (NEA)
6. ☐ Officer of Society of National Educator's Association (SNEA)
7. ☐ Interested in medical profession
8. ☐ Speech and Debate
9. ☐ Rainbows
10. ☐ Rainbow Line Officer
11. ☐ Eagle Scout
12. ☐ Sigma Nu
13. ☐ Handicapped
14. ☐ Work with handicapped children
15. ☐ Parents or grandparents member of Joplin Police Dept.
16. ☐ Freeman Hospital employee
17. ☐ Piano major

Freshman Only---

Application will not be processed unless this section is completed and signed by your high school counselor or principal.

High School GPA on a
4.00 grade point system.

7th semester GPA: _____

Signature of counselor or principal _____

Date _____

Are you receiving a Presidents Scholarship? _____ Regents Scholarship? _____

Phone _____ Birthdate _____

First year student _____ Current student _____ Transfer student _____

Are you currently employed? Yes _____ No _____

List place of employment _____

(If dependent) Father's employer _____

(If dependent) Mother's employer _____

(If married) Spouse's employer _____

List scholastic honors: _____

Activities: _____

Organizations: _____

Volunteer work: _____

All qualified applicants will receive consideration without regard to non-merit factors: race, sex, creed, or handicap.

Statement of Certification: If I am awarded a scholarship, I hereby give my consent for Missouri Southern State College to permit the donor of the scholarship to review my scholarship record files.

I understand that in order to receive assistance from the scholarship program administered by Missouri Southern State College I must maintain satisfactory academic progress.

I further understand that application to the scholarship program must be renewed each year and that the application must be turned in prior to April 1.

Date signed _____ Signature _____

Application for Admission

(Effective January 1982)

\$10.00 application fee is required for first time students only.

1. Name (Print) _____ (Last) (First) (Middle) (Maiden or Former Names) _____ 10-30

2. Social Security Number (Required) _____

3. Sex: (Circle) Male Female Are you a veteran? Yes No

4. Date of Birth: Month: _____ Day: _____ Year: _____

5. Residency Status: Permanent mailing address

Address _____ City _____ County _____

State _____ Zip Code _____ Telephone No. _____

How long have you resided at the above address? _____

6. Are you a U.S. Citizen? Yes No If no, what visa do you hold? _____

If no, Country of birth _____ Major _____

7. Student Status (Circle)

First Time Student

Transfer Student (Attended any other college)

Former Student of MSSC or Joplin JUCO

Post Graduate

Credit in Escrow (permission of High School Principal must be attached)

Transient (Summer Only)

Credit hours completed (Circle) 0-29 30-59 60-89 90 or more

8. Admission Status (Circle) 0. Regular Other:

1. Temporary 2. Special 3. Transient 4. Credit in Escrow 5. Continuing Ed 6. Workshop 7. Audit 8. _____

9. Are you currently on suspension from any college? (Circle) Yes No

10. The college term in which you expect to enroll: Fall 19____ Spring 19____ Summer 19____

11. High school date of graduation 19____ or date GED passed 19____

12. _____ (Name of High School) (City) (State)

Are you a Mid-Term High School graduate? (Circle) Yes No

13. Students who have degrees are not required to have all of their transcripts sent to the Registrar's Office, only the transcripts from the institution where the highest degree was issued. If you have taken courses after your degree was issued we must have copies of transcripts from those colleges.

14. COLLEGES ATTENDED: PUT MOST RECENT ON THE TOP LINE

NAME	LOCATION	DATES ATTENDED	
		FROM	TO

15. What is your racial background? American Indian or Alaskan Native _____ Asian or Pacific Islander _____ Black/Negro _____ Caucasian/White _____ Is your ethnic heritage Hispanic? Yes _____ No _____

16. In case of emergency (next of kin) _____

Address _____ City _____ County _____

State _____ Zip Code _____ Telephone No. _____

17. I certify that the information provided is complete and correct to the best of my knowledge.

18. _____
Signature

_____ Date Submitted

Missouri Southern State College does not discriminate on the basis of sex, race, creed, color, national origin, or the handicapped in its educational programs or activities.

**Missouri Southern State College
Joplin, MO 64801-1595**

Phone: 417-624-8100

after hours 417-782-MSSC

For admissions and financial aid information in Missouri call toll free 1-800-492-4811